

American Heart Journal

The international publication for the study of the heart and circulation

Editor in Chief: **DEAN T. MASON, MD** *San Francisco, Calif.*
Managing Editor: **LESLIE J. FLATT** *San Francisco, Calif.*
Editorial Assistant: **MARIE D. YOUNG** *San Francisco, Calif.*
Senior Manuscript Editor: **PETER MALIK** *St. Louis, Mo.*

EDITORIAL BOARD

Hugh D. Allen, MD, *Columbus*
W. Gerald Austen, MD, *Boston*
Najam A. Awan, MD, *Sacramento*
Tali T. Bashour, MD, *San Francisco*
Stanley Beder, MD, *Washington, D.C.*
Daniel S. Berman, MD, *Los Angeles*
J. Thomas Bigger, MD, *New York*
William J. Bommer, MD, *Davis*
Lawrence I. Bonchek, MD, *Lancaster*
Lawrence S. Cohen, MD, *New Haven*
Lawrence H. Cohn, MD, *Boston*
John J. Collins, Jr., MD, *Boston*
C. Richard Conti, MD, *Gainesville*
Anthony N. DeMaria, MD, *Lexington*
Mary Allen Engle, MD, *New York*
Harvey Feigenbaum, MD, *Indianapolis*
Victor F. Froelicher, MD, *Long Beach*
Paul C. Gillette, MD, *Charleston*
John F. Goodwin, MD, *London*
Antonio M. Gotto, Jr., MD, *Houston*
Richard J. Gray, MD, *Los Angeles*
Rolf M. Gunnar, MD, *Maywood*
W. Proctor Harvey, MD, *Washington, D.C.*
Richard H. Helfant, MD, *Los Angeles*
Walter L. Henry, MD, *Irvine*
J. O'Neal Humphries, MD, *Columbia*
J. Willis Hurst, MD, *Atlanta*
Abdulmassih S. Iskandrian, MD, *Philadelphia*
Mark E. Josephson, MD, *Philadelphia*

William B. Kannel, MD, *Framingham*
Norman M. Kaplan, MD, *Dallas*
Samuel Kaplan, MD, *Los Angeles*
Joseph A. Kisslo, MD, *Durham*
Atul R. Laddu, MD, *McGaw Park*
Garrett Lee, MD, *San Francisco*
Michael Lesch, MD, *Chicago*
Robert I. Levy, MD, *New York*
Floyd D. Loop, MD, *Cleveland*
Reginald I. Low, MD, *Sacramento*
Dan G. McNamara, MD, *Houston*
Richard R. Miller, MD, *Santa Rosa*
Robert A. O'Rourke, MD, *San Antonio*
Joseph K. Perloff, MD, *Los Angeles*
Bertram Pitt, MD, *Ann Arbor*
Charles E. Rackley, MD, *Washington, D.C.*
Robert L. Reis, MD, *Miami*
Thomas A. Riemenschneider, MD, *Cleveland*
William C. Roberts, MD, *Bethesda*
David J. Sahn, MD, *San Diego*
Robert C. Schlant, MD, *Atlanta*
Pravin M. Shah, MD, *Loma Linda*
Bramah N. Singh, MD, *Los Angeles*
Walter Sommerville, MD, *London*
James T. Willerson, MD, *Dallas*
David O. Williams, MD, *Providence*
Roger A. Winkle, MD, *Stanford*
Robert F. Zelis, MD, *Hershey*
Douglas P. Zipes, MD, *Indianapolis*

VOLUME 117
JANUARY-JUNE 1989

VOLUME 117

COPYRIGHT© 1989 BY

THE C.V. MOSBY COMPANY

All rights reserved

Printed in the United States of America

Author index*

A

- Abascal VM (see Choong et al). 1989;117:636-42
- Abe S, Nagamoto Y, Fukuchi Y, Hayakawa T, Kuroiwa A. Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmia during acute myocardial ischemia in dogs. 1989;117:1223-33
- Abe T (see Tanaka et al). 1989;117:692-5 (Brief comm.)
- Abendschein DR (see Devries et al). 1989;117:31-6
- Ackermann R (see Kaiser et al). 1989;117:746-51 (Symposium)
- Adams DB (see Sheikh et al). 1989;117:623-8
- Agatston AS, Polakoff R, Hippogoankar R, Schnur S, Samet P. The significance of increased left ventricular outflow tract velocities in the elderly measured by continuous wave Doppler. 1989;117:1320-6
- Agmon J (see Strasberg et al). 1989;117:160-3 (Curriculum cardi-ol.)
- Airaksinen KEJ (see Ikäheimo et al). 1989;117:837-41
- Aisen AM (see Kavanaugh et al). 1989;117:53-9
- Aizawa T (see Ogasawara et al). 1989;117:804-8
- Aizawa Y (see Niwano et al). 1989;117:1155-7 (Brief comm.)
- Akimoto K (see Ino et al). 1989;117:1400-1 (Letter)
- Al-Wathiqui MH, Farber N, Pelc L, Gross GJ, Brooks HL, Warltier DC. Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol. 1989;117:791-8
- Al-Yousef S (see Khan et al). 1989;117:1008-14
- Aldridge HE (see Webb et al). 1989;117:705 (Brief comm.)
- Alfonso F, Rodrigo JL, Bañuelos C, Iniguez A, Macaya C, Zarco P. Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm. 1989;117:695-7 (Brief comm.)
- Alpert DH, Hirsh PD, Cowley MJ, Vetrovec GW. Angiographic demonstration of plaque fissure associated with acute coronary occlusion. 1989;117:185-6 (Brief comm.)
- Alpert JS (see Clyne et al). 1989;117:1366-73 (Curriculum cardi-ol.)
- (see Goldberg et al). 1989;117:543-9
- Alpert MA (see Mukerji et al). 1989;117:705 (Brief comm.)
- Alvarez L (see Torrecilla et al). 1989;117:1389-90 (Brief comm.)
- Amico A, Iliceto S, Rizzo A, Casella V, Rizzon P. Color Doppler findings in ventricular septal dissection following myocardial infarction. 1989;117:195-8 (Brief comm.)
- Amin DK (see Moisenifar et al). 1989;117:887-91
- Andersen HR, Nielsen D, Falk E. Right ventricular infarction: diagnostic value of ST elevation in lead III exceeding that of lead II during inferior/posterior infarction and comparison with right-chest leads V₃R to V₇R. 1989;117:82-6
- Anderson KM (see Kregar et al). 1989;117:903-10 (Prog. cardi-ol.)
- André-Fouet X, Pillot M, Leizorovicz A, Finet G, Gayet C, Milon H. "Non-Q wave," alias "nontransmural," myocardial infarction: a specific entity. 1989;117:892-902 (Curriculum cardi-ol.)
- Angelini P. Normal and anomalous coronary arteries: definitions and classification. 1989;117:418-34 (Curriculum cardi-ol.)
- Angelo-Nielsen K (see Svanegaard et al). 1989;117:194-5 (Brief comm.)
- Antman EM (see Pohjola-Sintonen et al). 1989;117:809-18
- Aragam JR, Keroack MA, Kemper AJ. Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis. 1989;117:1392-4 (Brief comm.)
- Arcidiacono G (see Russo et al). 1989;117:1385-7 (Brief comm.)
- Arie S, T. Gonçalves MT de FA, Rati MAN, Tarasoutchi F, Cardoso LF, Grinberg M, Bellotti G, Pileggi F. Balloon dilatation of a stenotic dura mater mitral bioprosthesis. 1989;117:201-2 (Brief comm.)
- Armstrong PW (see Freeman et al). 1989;117:306-14
- Arora R. Balloon dilation in discrete subaortic stenosis. 1989;117:1397 (Letter reply)
- Arvan S (see Dulaney and Arvan). 1989;117:198-201 (Brief comm.)
- Arzbaecher R (see Bump et al). 1989;117:577-84

B

- Ascah KJ, Stewart WJ, Gillam LD, Triulzi MO, Newell JB, Weyman AE. Calculation of transmitral flow by Doppler echocardiography: a comparison of methods in a canine model. 1989;117:402-11
- Badhwar K (see Tuzcu et al). 1989;117:1374-7 (Prog. cardi-ol.)
- Baerman JM, Morady F, de Buitelir M, DiCarlo LA Jr, Kou WH, Nelson SD. A prospective comparison of programmed ventricular stimulation with triple extrastimuli versus single and double extrastimuli during infusion of isoproterenol. 1989;117:342-7
- Bahawar H (see Mitrovic et al). 1989;117:106-11
- Bal ET (see Bruschke et al). 1989;117:296-305
- Balaguer J (see Torrecilla et al). 1989;117:1389-90 (Brief comm.)
- Bañuelos C (see Alfonso et al). 1989;117:695-7 (Brief comm.)
- Bär FW (see de Zwaan et al). 1989;117:657-65 (Curriculum cardi-ol.)
- Barbieri E (see Latini et al). 1989;117:497-8 (Brief comm.)
- Bardelli M (see Carretta et al). 1989;117:229-35 (Symposium)
- Bardos P (see Lambert et al). 1989;117:615-22
- Baroddy NB Jr (see Keil et al). 1989;117:1022-9
- Barron JT, Billhardt RA. Angina pectoris with encainide in dilated cardiomyopathy. 1989;117:701-2 (Brief comm.)
- Barry KJ, Kaplan J, Connolly RJ, Nardella P, Lee BI, Becker GJ, Waller BF, Callow AD. The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty. 1989;117:332-41
- Barry WH (see Orme et al). 1989;117:11-7
- Barth G (see Camp et al). 1989;117:702-4 (Brief comm.)
- Bartolozzi C (see Casolo et al). 1989;117:468-72 (Brief comm.)
- Bartorelli A (see Loidi et al). 1989;117:315-22
- Barzilai B (see Geltman et al). 1989;117:1406 (Letter reply)
- Bashore TM (see Davidson et al). 1989;117:411-7
- (see Sheikh et al). 1989;117:206-10 (Brief comm.)
- Basmdjian A (see de Lorge et al). 1989;117:523-32
- Batchelor AJ, Krueyer WB, Hickman JR Jr. Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy. 1989;117:1264-70
- Bayés de Luna A, Coumel P, Leclercq JF. Ambulatory sudden cardiac death: mechanisms of production of fatal arrhythmia on the basis of data from 157 cases. 1989;117:151-9 (Curriculum cardi-ol.)
- Beamish RE (see Ganguly et al). 1989;117:1399-400 (Letter)
- Beatt KJ (see Kamp et al). 1989;117:991-6
- Becker GJ (see Barry et al). 1989;117:332-41
- Belgrade University/Baylor College of Medicine Cardiology Research Group (see Ostojic et al). 1989;117:590-8
- Belhassen B (see Viskin and Belhassen). 1989;117:1401 (Letter)
- Beller GA (see Reed et al). 1989;117:60-71
- Bellera-Celli V (see Brandi-Pifano et al). 1989;117:25-31
- Bellet M (see Nussberger et al). 1989;117:717-22 (Symposium)
- Bellotti G (see Arie et al). 1989;117:201-2 (Brief comm.)
- Benomar M (see Chaara et al). 1989;117:684-5 (Brief comm.)
- Benotti JR (see Clyne et al). 1989;117:1366-73 (Curriculum cardi-ol.)
- Benraad ThJ (see Tan et al). 1989;117:1406-7 (Letter)
- Beppu S (see Nakatani et al). 1989;117:486-9 (Brief comm.)
- Berloff RL, Strain J, Crandall C, Ghali V, Goldman B. Pathology of aortic valvuloplasty: findings after postmortem successful and failed dilatations. 1989;117:688-90 (Brief comm.)
- Bergman KS, Stevenson WG, Tillich JH, Stevenson LW. Effect of body position on the diagnostic accuracy of the electrocardiogram. 1989;117:204-6 (Brief comm.)
- Berman DS (see Kiat et al). 1989;117:1-11
- (see Ostrzega et al). 1989;117:444-52 (Prog. cardi-ol.)
- Bharati S (see Ring et al). 1989;117:1233-40
- Bhat AM, Sacks H, Osborne JA, Lefer AM. Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats. 1989;117:799-803

*January, pp. 1-274; February, pp. 275-508; March, pp. 509-768; April, pp. 769-990; May, pp. 991-1188; June, pp. 1189-1448.

- Biancaneillo TM. Balloon dilation in discrete subaortic stenosis. 1989;117:1397 (Letter)
- Bigger JT Jr (see Sahar et al). 1989;117:562-8
- Billhardt RA (see Barron and Billhardt). 1989;117:701-2 (Brief comm.)
- Binet J-P (see Hallali et al). 1989;117:957-9 (Brief comm.)
- Binkley PF (see Leier et al). 1989;117:1092-8
- Bischoff P (see Bouchard et al). 1989;117:281-9
- Bishop SP (see Bouchard et al). 1989;117:281-9
- Bissett JK (see Ngo et al). 1989;117:385-90
- Bito K (see Tsutomoto et al). 1989;117:599-606
- Blades M (see Murphy et al). 1989;117:1327-32
- Blanco P (see Brandi-Pifano et al). 1989;117:25-31
- Block PC (see Brandi-Pifano et al). 1989;117:25-31
- Blumlein S (see Bouchard et al). 1989;117:1099-105
- Bogren HG, Klipstein RH, Firmin DN, Mohiaddin RH, Underwood SR, Rees RSO, Longmore DB. Quantitation of antegrade and retrograde blood flow in the human aorta by magnetic resonance velocity mapping. 1989;117:1214-22
- Boku H (see Ino et al). 1989;117:1400-1 (Letter)
- Bolooki H (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
- Bonazzi O (see Facchini et al). 1989;117:1258-64
- Bonifazi ME (see McFarland et al). 1989;117:1209-14
- Botvinick EH (see Bouchard et al). 1989;117:1099-105
- (see Dae et al). 1989;117:861-9
- Bouchacourt P (see Forette et al). 1989;117:256-61 (Symposium)
- Bouchard A, Reeves RC, Cranney G, Bishop SP, Pohost GM, Bischoff P. Assessment of myocardial infarct size by means of T₂-weighted ¹H nuclear magnetic resonance imaging. 1989;117:281-9
- , Yock P, Schiller NB, Blumlein S, Botvinick EH, Greenberg B, Chaitlin M, Massie BM, Newlands JS, Topic N, Loge D. Value of color Doppler estimation of regurgitant volume in patients with chronic aortic insufficiency. 1989;117:1099-105
- Bourdillon PDV, Hookman LD, Morris SN, Waller BF. Percutaneous balloon valvuloplasty for tricuspid stenosis: hemodynamic and pathological findings. 1989;117:492-5 (Brief comm.)
- Boussignac G (see Geschwind et al). 1989;117:1147-52 (Prog. cardiol.)
- Brady P (see Goldberg et al). 1989;117:543-9
- Brandi-Pifano S, Palacios IF, Block PC, Blanco P, Pulido JJ, Casal H, Bellera-Celli V. Echophonocardiography in patients undergoing percutaneous mitral balloon valvotomy (PMV): the learning curve of PMV. 1989;117:25-31
- Braunwald E (see Pohjola-Sintonen et al). 1989;117:809-18
- (see Tofler et al). 1989;117:86-92
- Bricker JT (see Khan et al). 1989;117:1008-14
- Brizendine M (see Narahara et al). 1989;117:1030-5
- Brooks HL (see Al-Wa'ithiqui et al). 1989;117:791-8
- Brugada P (see de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)
- Brunner HR. Symposium on modern methods of investigating converting enzyme inhibition: closing remarks. 1989;117:768 (Symposium)
- (see Nussberger et al). 1989;117:717-22 (Symposium)
- Bruno MS (see Coplan and Bruno). 1989;117:1175-7 (Editorial)
- Bruschke AVG, Kramer JR Jr, Bal ET, Haque IU, Detrano RC, Goormastic M. The dynamics of progression of coronary atherosclerosis studied in 168 medically treated patients who underwent coronary arteriography three times. 1989;117:296-305
- Bryg RJ (see Labovitz et al). 1989;117:1404 (Letter reply)
- Buch WS (see Winkle et al). 1989;117:122-7
- Buda AJ (see Kavanaugh et al). 1989;117:53-9
- Bulpitt CS (see Sever et al). 1989;117:735-9 (Symposium)
- Bump TE, Ripley KL, Guezennec A, Arzbaecher R. The effect of drugs and lead maturation on atrial electrograms during sinus rhythm and atrial fibrillation. 1989;117:577-84
- Burwell LR (see Reed et al). 1989;117:60-71
- Bush HS (see Ferguson et al). 1989;117:18-24
- Byers SL (see Camp et al). 1989;117:702-4 (Brief comm.)
- (see Labovitz et al). 1989;117:1003-8
- (see Stoddard et al). 1989;117:395-402
- C
- Callow AD (see Barry et al). 1989;117:332-41
- Calvi V (see Russo et al). 1989;117:1385-7 (Brief comm.)
- Camp A, Chaitman BR, Goodgold H, Byers S, Shaw L, Barth G, Samuels L. Intravenous dipyridamole: body weight considerations and dosage requirements. 1989;117:702-4 (Brief comm.)
- Campa MA (see Dubuc et al). 1989;117:370-6
- Campanacci L (see Carretta et al). 1989;117:229-35 (Symposium)
- Campese V (see Jamison et al). 1989;117:607-14
- Cardoso LF (see Arie et al). 1989;117:201-2 (Brief comm.)
- Carretta R, Bardelli M, Muiasán S, Vran F, Fabris B, Fischetti F, Campanacci L. Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique. 1989;117:229-35 (Symposium)
- Casal H (see Brandi-Pifano et al). 1989;117:25-31
- Cascella V (see Amico et al). 1989;117:195-8 (Brief comm.)
- Casolo GC, Trotta F, Rostagno C, Poggesi L, Galanti G, Masotti G, Bartolozzi C, Dabizzi RP. Detection of apical hypertrophic cardiomyopathy by magnetic resonance imaging. 1989;117:468-72 (Brief comm.)
- Cassel GH (see Podgor et al). 1989;117:642-8
- Cassidy MM (see Pflugfelder et al). 1989;117:1113-9
- Castello C (see Latini et al). 1989;117:497-8 (Brief comm.)
- Chaara A, Zniher L, Haitem NE, Benomar M. Percutaneous balloon valvuloplasty via the right internal jugular vein for valvular pulmonic stenosis with severe right ventricular failure. 1989;117:684-5 (Brief comm.)
- Chahine RA, Mallon SM. Coronary thrombosis induced by coronary spasm without myocardial infarction. 1989;117:186-8 (Brief comm.)
- Chaitman BR (see Camp et al). 1989;117:702-4 (Brief comm.)
- (see Deligonul et al). 1989;117:509-14
- (see Labovitz et al). 1989;117:1003-8
- (see Stoddard et al). 1989;117:395-402
- Chakko SC, Frutchey J, Gheorghiade M. Life-threatening hyperkalemia in severe heart failure. 1989;117:1083-91
- Chan P, Ogilby JD, Segal B. Tricuspid valve endocarditis. 1989;117:1140-6 (Curriculum cardiol.)
- Chan WP (see Prasad et al). 1989;117:1196-202
- Charuzi Y (see Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)
- Chaudhary AK (see Prasad et al). 1989;117:1196-202
- Cheirif J (see Rokej et al). 1989;117:952-3 (Brief comm.)
- Cheitlin M (see Bouchard et al). 1989;117:1099-105
- Chen Y-F (see Wu et al). 1989;117:697-9 (Brief comm.)
- Chen Z (see Goldberg et al). 1989;117:543-9
- Chenevert TL (see Kavanaugh et al). 1989;117:53-9
- Cherix EC, Janssen EWL, Penn OCKM, van Ommen V, Janssen JHA, Wellens HJJ. Pseudoaneurysm formation with fistulous communication to the left atrium after surgical interruption of an accessory atrioventricular pathway. 1989;117:1394-6 (Brief comm.)
- (see de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)
- Cherng W-J (see Hung et al). 1989;117:381-5
- Chernilas J (see Vlay et al). 1989;117:980-6 (Editorial)
- Cheung DLC (see Lo et al). 1989;117:1157-9 (Brief comm.)
- Chimienti M (see Previtali et al). 1989;117:92-9
- Chisholm RJ (see Freeman et al). 1989;117:306-14
- Choong CY, Abascal VM, Weyman J, Levine RA, Gentile F, Thomas JD, Weyman AE. Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography. 1989;117:636-42
- , Gibbons EF, Hogan RD, Franklin TD, Nolting M, Mann DL, Weyman AE. Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle. 1989;117:819-29
- Chun PKC (see Shawl et al). 1989;117:537-42
- Ciampricotti R, El Gamal M. Recurrent myocardial infarction and sudden death after sport. 1989;117:188-91 (Brief comm.)
- Clément R (see de Lorgeril et al). 1989;117:523-32
- Clyne CA, Alpert JS, Benotti JR. Interdependence of the left and right ventricles in health and disease. 1989;117:1366-73 (Curriculum cardiol.)
- Colwell K (see Peng et al). 1989;117:515-22
- Come PC (see Ferguson et al). 1989;117:127-32
- Connolly C (see Oldridge and Connolly). 1989;117:495-7 (Brief comm.)
- Connolly RJ (see Barry et al). 1989;117:332-41
- Coplan NL, Bruno MS. Acquired immunodeficiency syndrome and heart disease: the present and the future. 1989;117:1175-7 (Editorial)
- , Gleim GW, Nicholas JA. Exercise-related changes in serum catecholamines and potassium: effect of sustained exercise above and below lactate threshold. 1989;117:1070-5
- Corone P (see Hallali et al). 1989;117:957-9 (Brief comm.)
- Corvol P (see Michel et al). 1989;117:756-67 (Symposium)
- Coumel P (see Bayés de Luna et al). 1989;117:151-9 (Curriculum cardiol.)

- Cowley MJ (see Alpert et al). 1989;117:185-6 (Brief comm.)
Cox M (see Kessler et al). 1989;117:964-6 (Brief comm.)
Crandall C (see Berdoff et al). 1989;117:688-90 (Brief comm.)
Cranney G (see Bouchard et al). 1989;117:281-9
Crawford MH. LA enlargement in hypertension. 1989;117:1410 (Letter reply)
Crijns HJ (see van Wijk et al). 1989;117:365-9
Cruces JV III (see Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)
Cuscunà S (see Russo et al). 1989;117:1385-7 (Brief comm.)

D

- Dabizzi RP (see Casolo et al). 1989;117:468-72 (Brief comm.)
Dae M, Wen Y-m, Botvinick EH, Scheinman M. ECG left anterior fascicular block reveals diverse patterns on scintigraphic phase analysis. 1989;117:861-9
Dalen JE (see Goldberg et al). 1989;117:543-9
Dalton N (see Hoyt et al). 1989;117:1119-26
Danford DA (see Kugler and Danford). 1989;117:665-79 (Curriculum cardiol.)
Dangman KH, Ziam S, Miura DS. Local anesthetic and negative chronotropic effects of diltiazem on canine cardiac Purkinje fibers. 1989;117:1271-7
Daniel WG (see Mücke et al). 1989;117:474-5 (Brief comm.)
Daniels SR (see Kimball et al). 1989;117:968-71 (Brief comm.)
— (see Murphy et al). 1989;117:1327-32
Danielson GK (see Fyfe et al). 1989;117:1387-8 (Brief comm.)
Dassen WRM (see de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)
Date T (see Yoshino et al). 1989;117:1316-9
Davies JE (see Shawl et al). 1989;117:537-42
David A (see Hallali et al). 1989;117:957-9 (Brief comm.)
Davidson CJ, Harpole DA, Kisslo K, Skelton TN, Kisslo J, Jones RH, Bashore TM. Analysis of the early rise in aortic transvalvular gradient after aortic valvuloplasty. 1989;117:411-7
— (see Sheikh et al). 1989;117:206-10 (Brief comm.)
Davis K (see Eaker et al). 1989;117:71-81
Davis VG (see Pohjola-Sintonen et al). 1989;117:809-18
— (see Tofler et al). 1989;117:86-92
DeBoe SF (see Pinto et al). 1989;117:1283-7
DeBoer LWV, Folts JD. Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries. 1989;117:973-5 (Brief comm.)
de Bruyne B, Lerch R, Meier B, Schlaepfer H, Gabathuler J, Rutishauser W. Doppler assessment of left ventricular diastolic filling during brief coronary occlusion. 1989;117:629-35
de Buitler M (see Baerman et al). 1989;117:342-7
De Caterina R (see Simonetti et al). 1989;117:323-31
De Cesare N (see Loaldi et al). 1989;117:315-22
Deckelbaum L (see Eichhorn et al). 1989;117:1203-9
De Ferrari GM (see Vanoli et al). 1989;117:348-57
De Feyter PJ (see Kamp et al). 1989;117:991-6
Del Greco M (see Guarnerio et al). 1989;117:1241-52
Deligonul U, Vandormael MG, Kern MJ, Galan K. Repeat coronary angioplasty for restenosis: results and predictors of follow-up clinical events. 1989;117:997-1002
—, Shah Y, Galan K, Kern MJ, Chaitman BR. Prognostic value of early exercise stress testing after successful coronary angioplasty: importance of the degree of revascularization. 1989;117:509-14
de Lorgeil M, Basmadjian A, Lavallée M, Clément R, Millette D, Rousseau G, Latour J-G. Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs. 1989;117:523-32
de Marchena EJ, Wozniak P, Madrid W, Futterman L, Mitrani A, Myerburg RJ, Bolooki H. Pseudo-complete AV block following orthotopic cardiac transplantation. 1989;117:1173-4 (Brief comm.)
— (see Kessler et al). 1989;117:964-6 (Brief comm.)
DeMaria AN (see Smith et al). 1989;117:475-9 (Brief comm.)
Demiroglu C (see Özder et al). 1989;117:1407-8 (Letter)
Denardo SJ, Stevenson WG. Is the adaptation of left ventricular refractoriness to an abrupt increase in heart rate impaired in chronic heart failure? 1989;117:585-9
De Ponti R (see Previtali et al). 1989;117:92-9
DeQuattro V (see Iosa et al). 1989;117:882-7
Dervan JP, Vlay SC. Coronary artery-to-pulmonary artery fistula: a potential new mechanism. 1989;117:971-3 (Brief comm.)
— (see Vlay et al). 1989;117:980-6 (Editorial)
Detrano RC (see Bruschke et al). 1989;117:296-305

- Dev V, Shrivastava S. Transverse balloon tear in valvuloplasty. 1989;117:1397-8 (Letter)
Devries SR, Jaffe AS, Geltman EM, Sobel BE, Abendschein DR. Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion. 1989;117:31-6
de Zwaan C, Bär FW, Janssen JHA, Cheriex EC, Dassen WRM, Brugada P, Penn OCKM, Wellens HJJ. Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery. 1989;117:657-65 (Curriculum cardiol.)
Dhalla NS (see Ganguly et al). 1989;117:1399-400 (Letter)
DiCarlo LA Jr (see Baerman et al). 1989;117:342-7
Dieterich H-A (see Mitrovic et al). 1989;117:106-11
Disertori M (see Guarnerio et al). 1989;117:1241-52
DiSesa VJ (see Mok et al). 1989;117:1171-3 (Brief comm.)
Doğan H (see Özder et al). 1989;117:1407-8 (Letter)
Dohi T (see Mori and Dohi). 1989;117:1167-9 (Brief comm.)
Donohue DJ (see Shawl et al). 1989;117:537-42
Dorosti K (see Tuzcu et al). 1989;117:1374-7 (Prog. cardiol.)
Douglas JS Jr (see Ellis et al). 1989;117:777-82
Downes TR, Nomeir A-M, Hackshaw BT, Kellam LJ, Watts LE, Little WC. Diastolic mitral regurgitation in acute but not chronic aortic regurgitation: implications regarding the mechanism of mitral closure. 1989;117:1106-12
Dubois-Randé J-C (see Geschwind et al). 1989;117:1147-52 (Prog. cardiol.)
Dubuc M, Kus T, Campa MA, Lambert C, Rosengarten M, Shenasa M. Electrophysiologic effects of intravenous propafenone in Wolff-Parkinson-White syndrome. 1989;117:370-6
Dulaney JJ, Arvan S. Valvular prolapse and great vessel dilatation in multiple endocrine neoplasia type 2B. 1989;117:198-201 (Brief comm.)
Dunham WR (see Kavanaugh et al). 1989;117:53-9
Duo GS, Hoff P, Kupersmith J. Repolarization interactions between cardiac segments of varying action potential duration. 1989;117:854-61

E

- Eagle KA (see Kaye et al). 1989;117:1169-71 (Brief comm.)
Eaker ED, Kronmal R, Kennedy JW, Davis K. Comparison of the long-term, postsurgical survival of women and men in the Coronary Artery Surgery Study (CASS). 1989;117:71-81
Earnhardt W (see McFarland et al). 1989;117:1209-14
Ebihara H (see Matsuda et al). 1989;117:1014-7
Edner M (see Jogestrand et al). 1989;117:1076-83
Eichhorn EJ, Konstam MA, Salem DN, Isner JM, Deckelbaum L, Stransky NB, Metherall JA, Toltz HI. Dipyrindamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans. 1989;117:1203-9
Eisen HJ (see Geltman et al). 1989;117:1406 (Letter reply)
El Gamal M (see Ciampicotti and El Gamal). 1989;117:188-91 (Brief comm.)
El Habbal MH, Suliman RF. The aortic root in subaortic stenosis. 1989;117:1127-32
Elkayam U (see Iosa et al). 1989;117:882-7
— (see Jamison et al). 1989;117:607-14
Elliott HL (see Reid et al). 1989;117:751-5 (Symposium)
Ellis SG, Roubin GS, Wilentz J, Douglas JS Jr, King SB III. Effect of 18- to 24-hour heparin administration for prevention of restenosis after uncomplicated coronary angioplasty. 1989;117:777-82
Enyama H (see Matsui et al). 1989;117:472-4 (Brief comm.)
Estep CB (see Luther et al). 1989;117:842-7
Estes NAM III, Manolis AS, Greenblatt DJ, Garan H, Ruskin JN. Therapeutic serum lidocaine and metabolite concentrations in patients undergoing electrophysiologic study after discontinuation of intravenous lidocaine infusion. 1989;117:1060-4

F

- Fabbicci F (see Loaldi et al). 1989;117:315-22
Fabris B (see Carretta et al). 1989;117:229-35 (Symposium)
Facchini M, Varisco T, Bonazzi O, Priori SG, Songa V, Schwartz PJ. Efficacy and safety of flecainide in low-risk patients with chronic ventricular arrhythmias: a two-year follow-up. 1989;117:1258-64
Fain ES, Sweeney MB, Franz MR. Improved internal defibrillation efficacy with a biphasic waveform. 1989;117:358-64
Falk E (see Andersen et al). 1989;117:82-5
Fallon JT (see Rezkalla et al). 1989;117:391-5

- Farber JP (see Vanoli et al). 1989;117:348-57
 Farber N (see Al-Wathiqui et al). 1989;117:791-8
 Fechner KP (see Kavanaugh et al). 1989;117:53-9
 Felis S (see Russo et al). 1989;117:1385-7 (Brief comm.)
 Ferguson JJ III, Bush HS, Riuli EP. Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function. 1989;117:18-24
 —, Manning WJ, Come PC. Pulsed Doppler echocardiographic determination of the time course of left ventricular filling: validation with cineangiography. 1989;117:127-32
 Finet G (see André-Fouet et al). 1989;117:892-902 (Curriculum cardi.)
 Firmin DN (see Bogren et al). 1989;117:1214-22
 Fischetti F (see Carretta et al). 1989;117:229-35 (Symposium)
 Flachskampf FA (see Lambert et al). 1989;117:615-22
 Flamm ES. The potential use of nifedipine in cerebrovascular disease. 1989;117:236-42 (Symposium)
 Fohlman J (see Ilbäck et al). 1989;117:1298-1302
 Folts JD (see DeBoer and Folts). 1989;117:973-5 (Brief comm.)
 Forette F, McClaran J, Hervy MP, Bouchacourt P, Henry JF. Nifedipine in elderly patients with hypertension: a review of experience in France. 1989;117:256-61 (Symposium)
 Foti R (see Russo et al). 1989;117:1385-7 (Brief comm.)
 Fox-Eastham K (see Hite et al). 1989;117:569-76
 Franco I (see Tuzcu et al). 1989;117:1374-7 (Prog. cardi.)
 Franklin TD (see Choong et al). 1989;117:819-29
 Franz MR (see Fain et al). 1989;117:358-64
 Freeman MR, Williams AE, Chisholm RJ, Patt NL, Greyson ND, Armstrong PW. Role of resting thallium²⁰¹ perfusion in predicting coronary anatomy, left ventricular wall motion, and hospital outcome in unstable angina pectoris. 1989;117:306-14
 Frichione GL, Olson LC, Vlay SC. Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal. 1989;117:1411-4 (Editorial)
 Friedman J (see Kiat et al). 1989;117:1-11
 Friehling TD (see O'Connor et al). 1989;117:848-53
 Friman G (see Ilbäck et al). 1989;117:1298-1302
 Frutchey J (see Chakko et al). 1989;117:1083-91
 Fu M (see Hung et al). 1989;117:381-5
 Fujii B (see Matsuda et al). 1989;117:1014-7
 Fujiki A, Yoshida S, Mizumaki K, Sasayama S. Atrial automatic tachycardia with two different types of electrophysiologic characteristics. 1989;117:699-701 (Brief comm.)
 Fujimura O, Jones DL, Klein GJ. The defibrillation threshold: How many measurements are enough? 1989;117:977-9 (Brief comm.)
 Fukagawa K (see Yoshino et al). 1989;117:1316-9
 Fukuchi Y (see Abe et al). 1989;117:1223-33
 Fuller HD (see Vannelli and Fuller). 1989;117:202-4 (Brief comm.)
 Fulop J (see Webb et al). 1989;117:485-6 (Brief comm.)
 Furlanetto F (see Guarnerio et al). 1989;117:1241-52
 Furukawa T, Rozanski JJ, Moroe K, Gosselin AJ, Lister JW. Predictors of sustained ventricular tachycardia inducibility in patients with nonsustained ventricular tachycardia and chronic coronary artery disease. 1989;117:1050-9
 Futterman L (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
 Fyfe DA, Gillette PC, Jones JS, Danielson GK. Successful pregnancy following modified Fontan procedure in a patient with tricuspid atresia and recurrent atrial flutter. 1989;117:1387-8 (Brief comm.)
 — (see Johnson et al). 1989;117:690-2 (Brief comm.)
- G**
- Gabathuler J (see de Bruyne et al). 1989;117:629-35
 Galan K (see Deligonul et al). 1989;117:509-14
 — (see Deligonul et al). 1989;117:997-1002
 Galanti G (see Casolo et al). 1989;117:468-72 (Brief comm.)
 Ganguly PK, Beamish RE, Dhalla NS. Catecholamine cardiotoxicity in pheochromocytoma. 1989;117:1399-400 (Letter)
 Garan H (see Estes et al). 1989;117:1060-4
 Gaudiani V (see Winkle et al). 1989;117:122-7
 Gayet C (see André-Fouet et al). 1989;117:892-902 (Curriculum cardi.)
 Gazes PC (see Keil et al). 1989;117:1022-9
 Geltman EM, Eisen HJ, Barzilai B, Jaffe AS. QRS scoring and anterior and inferior MI size. 1989;117:1406 (Letter reply)
 — (see Devries et al). 1989;117:31-6
 Gentile F (see Choong et al). 1989;117:636-42
 Gerosa G (see Latini et al). 1989;117:497-8 (Brief comm.)
- Geschwind HJ, Dubois-Randé J-C, Shafon E, Boussignac G, Wexman M. Percutaneous pulsed laser-assisted balloon angioplasty guided by spectroscopy. 1989;117:1147-52 (Prog. cardi.)
 Ghali V (see Berdoff et al). 1989;117:688-90 (Brief comm.)
 Gheorghiade M (see Chakko et al). 1989;117:1083-91
 Giachero DA (see Nicklas et al). 1989;117:377-81
 Giannattasio C, Grassi G, Seravalle G, Morganti A, Zanchetti A, Mancia G. Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans. 1989;117:740-5 (Symposium)
 Gibbons EF (see Choong et al). 1989;117:819-29
 Gibbs HR (see Husted et al). 1989;117:1383-5 (Brief comm.)
 Gillam LD (see Asch et al). 1989;117:402-11
 Gillette PC (see Fyfe et al). 1989;117:1387-8 (Brief comm.)
 — (see Hays and Gillette). 1989;117:489-92 (Brief comm.)
 — (see Johnson et al). 1989;117:690-2 (Brief comm.)
 Giuffrida G (see Russo et al). 1989;117:1385-7 (Brief comm.)
 Glassman HN (see Luther et al). 1989;117:842-7
 Gleim GW (see Coplan et al). 1989;117:1070-5
 Gliner BE (see Murakawa et al). 1989;117:1065-9
 Goldberg H (see Yang and Goldberg). 1989;117:1403-4 (Letter)
 Goldberg RJ, Gore JM, Gurwitz JH, Alpert JS, Brady P, Strohsnitter W, Chen Z, Dalen JE. The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study. 1989;117:543-9
 Goldberg S (see Wappel et al). 1989;117:37-42
 Goldenberg IF (see Limas et al). 1989;117:1310-6
 Goldman B (see Berdoff et al). 1989;117:688-90 (Brief comm.)
 Gonçalves MT de FA (see Arie et al). 1989;117:201-2 (Brief comm.)
 Goodgold H (see Camp et al). 1989;117:702-4 (Brief comm.)
 Goormastic M (see Bruschke et al). 1989;117:296-305
 Gore JM (see Goldberg et al). 1989;117:543-9
 Gorman G (see Ring et al). 1989;117:1233-40
 Gosselin AJ (see Furukawa et al). 1989;117:1050-9
 Gowitz MH (see Stewart et al). 1989;117:140-4
 Graham AR (see Ring et al). 1989;117:1233-40
 Grassi G (see Giannattasio et al). 1989;117:740-5 (Symposium)
 Greenberg B (see Bouchard et al). 1989;117:1099-105
 Greenblatt DJ (see Estes et al). 1989;117:1060-4
 Grekin RJ (see Nicklas et al). 1989;117:377-81
 Grenadier E, Margulis T, Palant A, Safadi T, Merin G. Huge cavernous hemangioma of the heart: a completely evaluated case report and review of the literature. 1989;117:479-81 (Brief comm.)
 Greyson ND (see Freeman et al). 1989;117:306-14
 Grimaldi DR (see Russo et al). 1989;117:1385-7 (Brief comm.)
 Grinberg M (see Arie et al). 1989;117:201-2 (Brief comm.)
 Gromisch DS (see Stewart et al). 1989;117:140-4
 Gross CM, Prisant LM, Paolini D, von Dohlen TW. Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation. 1989;117:953-7 (Brief comm.)
 Gross GJ (see Al-Wathiqui et al). 1989;117:791-8
 Guarnerio M, Furlanetto F, Del Greco M, Vergara G, Inama G, Disertori M. Transesophageal atrial pacing: a first-choice technique in atrial flutter therapy. 1989;117:1241-52
 Guazzi MD (see Loaldi et al). 1989;117:315-22
 Guezzennec A (see Michel et al). 1989;117:756-67 (Symposium)
 Gurwitz JH (see Goldberg et al). 1989;117:543-9
- H**
- Haber E (see Rezkalla et al). 1989;117:391-5
 Hackel DB (see Wagner and Hackel). 1989;117:1405-6 (Letter)
 Hackshaw BT (see Downes et al). 1989;117:1106-12
 Haichin R (see Silberberg et al). 1989;117:532-7
 Haitem NE (see Chaara et al). 1989;117:684-5 (Brief comm.)
 Halbe D (see Labovitz et al). 1989;117:1404 (Letter reply)
 Haley NJ (see Wynder et al). 1989;117:649-56
 Hallali P, Iung B, David A, Binet J-P, Leriche H, Corone P. Congenital diverticulum of the right ventricle: report of two cases associated with other congenital heart defects. 1989;117:957-9 (Brief comm.)
 Hamada Y (see Matsuda et al). 1989;117:1014-7
 Hamer HPM (see Posma et al). 1989;117:1404 (Letter)
 Hands ME, Rutherford JD. ECG diagnosis of MI in LBBB. 1989;117:1409 (Letter reply)
 Hanrath P (see Lambert et al). 1989;117:615-22
 Hansen JF. Coronary collateral circulation: clinical significance and influence on survival in patients with coronary artery occlusion. 1989;117:290-5
 Haq A (see Webb et al). 1989;117:485-6 (Brief comm.)

- Haque AK (see Quintanilla and Haque). 1989;117:1378-9 (Brief comm.)
- Haque IU (see Bruschke et al). 1989;117:296-305
- Harpole DA (see Davidson et al). 1989;117:411-7
- Harrigan P (see Rosenzweig et al). 1989;117:962-3 (Brief comm.)
- Harris RE (see Wynder et al). 1989;117:649-56
- Hart RG (see Presti and Hart). 1989;117:976-7 (Brief comm.)
- Hasegawa K (see Uchida et al). 1989;117:769-76
- Hauser AM (see Pavlides et al). 1989;117:1390-2 (Brief comm.)
- Haverling M (see Jogestrand et al). 1989;117:1076-83
- Hawkins HK (see Sharif et al). 1989;117:1333-6
- Hayakawa T (see Abe et al). 1989;117:1223-33
- Hays MD, Gillette PC. Atrial automatic ectopic tachycardia successfully treated with encainide in a 4-week-old infant after Senning procedure. 1989;117:489-92 (Brief comm.)
- Hazen JF (see Narahara et al). 1989;117:1030-5
- Heger JJ (see Miles et al). 1989;117:112-21
- Heiss G (see Sheps and Heiss). 1989;117:177-84 (Prog. cardiol.)
- Hendren WG (see Smith et al). 1989;117:475-9 (Brief comm.)
- Henry JF (see Forette et al). 1989;117:256-61 (Symposium)
- Herman MV (see Pucillo et al). 1989;117:482-5 (Brief comm.)
- Hersfield E (see Long et al). 1989;117:1133-9
- Hervy MP (see Forette et al). 1989;117:256-61 (Symposium)
- Hess KR (see Ostojic et al). 1989;117:590-8
- Hessen S (see Wappel et al). 1989;117:37-42
- Hester WL (see Ngo et al). 1989;117:385-90
- Hickman JR Jr (see Batchelor et al). 1989;117:1264-70
- Higgins CB (see Pflugfelder et al). 1989;117:1113-9
- Hippogonkankar R (see Agatston et al). 1989;117:1320-6
- Hirsh PD (see Alpert et al). 1989;117:185-6 (Brief comm.)
- Hite PR, Schröder E, Kieso RA, Fox-Eastham K, Kerber RE. Effect of calcium channel blockers on hemodynamic responses to defibrillation. 1989;117:569-76
- Hoff P (see Duo et al). 1989;117:854-61
- Hogan RD (see Choong et al). 1989;117:819-29
- Hoit BD, Penonen E, Dalton N, Sahn DJ. Doppler color flow mapping studies of jet formation and spatial orientation in obstructive hypertrophic cardiomyopathy. 1989;117:1189-95
- Hollenberg M (see Knight et al). 1989;117:1189-95
- Hollman J (see Tuzcu et al). 1989;117:1374-7 (Prog. cardiol.)
- Holman AJ (see Mukerji et al). 1989;117:705 (Brief comm.)
- Honma H (see Ostregza et al). 1989;117:444-52 (Prog. cardiol.)
- Hookman LD (see Bourdillon et al). 1989;117:492-5 (Brief comm.)
- Hornung CA (see McFarland et al). 1989;117:1209-14
- Houston MC. New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension. 1989;117:911-51 (Special report)
- Hovanessian L (see Jamison et al). 1989;117:607-14
- Hoyt JC, Hutchins GM. Varicose transformation of the subendocardial microvasculature in regions of chronic myocardial ischemia. 1989;117:830-6
- Huang SKS (see Ring et al). 1989;117:1233-40
- Huang T-Y (see Wu et al). 1989;117:697-9 (Brief comm.)
- Hudson MB (see Keil et al). 1989;117:1022-9
- Huhta JC (see Khan et al). 1989;117:1008-14
- (see Sharif et al). 1989;117:1333-6
- Huikuri HV (see Ikäheimo et al). 1989;117:837-41
- Humphries JO'N (see McFarland et al). 1989;117:1209-14
- Hung J-S, Fu M, Cherrng W-J, Inoue K, Tsai R-C, Ishibashi M, Yamaji T. Rapid fall in elevated plasma atrial natriuretic peptide levels after successful catheter balloon valvuloplasty of mitral stenosis. 1989;117:381-5
- Huss-Randolph P (see Leier et al). 1989;117:1092-8
- Hustead ST, Quick A, Gibbs HR, Werner CA, Maulik D. "Pseudo-critical" aortic stenosis during pregnancy: role for Doppler assessment of aortic valve area. 1989;117:1383-5 (Brief comm.)
- Hutchins GM (see Hoyt and Hutchins). 1989;117:830-6
- Hyakuna E (see Matsuda et al). 1989;117:1014-7
- I**
- Ikäheimo MJ, Ruskoaho HJ, Airaksinen KEJ, Huikuri HV, Korhonen U-R, Leppälou P, Tuominen MO, Takkanen JT. Plasma levels of atrial natriuretic peptide during myocardial ischemia induced by percutaneous transluminal coronary angioplasty or dynamic exercise. 1989;117:837-41
- Ibbäck N-G, Fohlman J, Friman G. Exercise in coxsackie B3 myocardiitis: effects on heart lymphocyte subpopulations and the inflammatory reaction. 1989;117:1298-1302
- Iliceto S (see Amico et al). 1989;117:195-8 (Brief comm.)
- Inada M (see Matsubara et al). 1989;117:1407 (Letter reply)
- Inama G (see Guarnerio et al). 1989;117:1241-52
- Iniguez A (see Alfonso et al). 1989;117:695-7 (Brief comm.)
- Ino T, Akimoto K, Nishimoto K, Iwahara M, Boku H, Shimazaki S, Yabuta K. Myocarditis in Kawasaki disease. 1989;117:1400-1 (Letter)
- Inoue H (see Krause et al). 1989;117:550-61
- Inoue K (see Hung et al). 1989;117:381-5
- Inoue T (see Mohri et al). 1989;117:43-52
- Interian A Jr (see Kessler et al). 1989;117:964-6 (Brief comm.)
- Iosa D, DeQuattro V, Lee DD-P, Elkayam U, Palmero H. Plasma norepinephrine in Chagas' cardiomyopathy: a marker of progressive dysautonomia. 1989;117:882-7
- Ishibashi M (see Hung et al). 1989;117:381-5
- Isner JM (see Eichhorn et al). 1989;117:1203-9
- Iung B (see Hallali et al). 1989;117:957-9 (Brief comm.)
- Iwahara M (see Ino et al). 1989;117:1400-1 (Letter)
- J**
- Jaffe AS (see Devries et al). 1989;117:31-6
- (see Geltman et al). 1989;117:1406 (Letter reply)
- James FW (see Murphy et al). 1989;117:1327-32
- Jamison M, Widerhorn J, Weber L, Campese V, Vasquez J, Hovanessian L, Rahimtoola SH, Elkayam U. Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoreceptors (dopexamine) in patients with heart failure. 1989;117:607-14
- Janosik DL (see Wittry et al). 1989;117:191-4 (Brief comm.)
- Janssen EWL (see Cheriex et al). 1989;117:1394-6 (Brief comm.)
- Janssen JHA (see Cheriex et al). 1989;117:1394-6 (Brief comm.)
- (see de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)
- Jentzen JM. Cocaine-induced myocarditis. 1989;117:1398 (Letter)
- Jogestrand T, Edner M, Haverling M. Clinical value of serum digoxin assays in outpatients: improvement by the standardization of blood sampling. 1989;117:1076-83
- Johnson BL, Fyfe DA, Gillette PC, Kline CH, Sade R. In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia. 1989;117:690-2 (Brief comm.)
- Johnston DL (see Rokeby et al). 1989;117:952-3 (Brief comm.)
- Jones DL (see Fujimori et al). 1989;117:977-9 (Brief comm.)
- Jones EL (see Smith et al). 1989;117:475-9 (Brief comm.)
- Jones JS (see Fyfe et al). 1989;117:1387-8 (Brief comm.)
- Jones RH (see Davidson et al). 1989;117:411-7
- Jong Y-S (see Lo et al). 1989;117:959-62 (Brief comm.)
- Jordan DC (see Luther et al). 1989;117:842-7
- Juillat L (see Nussberger et al). 1989;117:717-22 (Symposium)
- K**
- Kaiser G, Ackermann R, Sioufi A. Pharmacokinetics of a new angiotensin-converting enzyme inhibitor, benazepril hydrochloride, in special populations. 1989;117:746-51 (Symposium)
- Kalra J (see Prasad et al). 1989;117:1196-202
- Kamada T (see Masuyama et al). 1989;117:133-9
- Kamp O, Beatt KJ, De Feyter PJ, van den Brand M, Suryapranata H, Luijten HE, Serruys PW. Short-, medium-, and long-term follow-up after percutaneous transluminal coronary angioplasty for stable and unstable angina pectoris. 1989;117:991-6
- Kannel WB. Detection and management of patients with silent myocardial ischemia. 1989;117:221-6 (Editorial)
- (see Kregler et al). 1989;117:903-10 (Prog. cardiol.)
- (see Podgor et al). 1989;117:642-8
- Kanter KR (see Stoddard et al). 1989;117:966-8 (Brief comm.)
- Kaplan J (see Barry et al). 1989;117:332-41
- Karcier SM (see Özder et al). 1989;117:1407-8 (Letter)
- Karimeddini MF (see White et al). 1989;117:145-50
- Kato K (see Ogasawara et al). 1989;117:804-8
- Kaul A (see Stewart et al). 1989;117:140-4
- Kavanaugh KM, Aisen AM, Fechner KP, Chenevert TL, Dunham WR, Buda AJ. Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit. 1989;117:53-9
- Kawamura K (see Nishimura et al). 1989;117:100-5
- (see Uchida et al). 1989;117:769-76
- Kay RH (see Pucillo et al). 1989;117:482-5 (Brief comm.)
- Kaye KM, McKusick KA, Eagle KA. Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test. 1989;117:1169-71 (Brief comm.)
- Ke Cheng X (see Yamakado et al). 1989;117:1379-81 (Brief comm.)

- Keil JE, Gazes PC, Litaker MS, Saunders DE Jr, Weinrich MC, Barody NB Jr, Lackland DT, Hudson MB. Changing patterns of acute myocardial infarction: decline in period prevalence and delay in onset. 1989;117:1022-9
- Kellam LJ (see Downes et al). 1989;117:1106-12
- Kemper AJ (see Aragam et al). 1989;117:1392-4 (Brief comm.)
- Kennedy HL, Wiens RD. Ambulatory (Holter) electrocardiography and myocardial ischemia. 1989;117:164-76 (Prog. cardi-ol.)
- (see Stratmann and Kennedy). 1989;117:1344-65 (Curric-ulum cardi-ol.)
- Kennedy JW (see Eaker et al). 1989;117:71-81
- Kenny D. Thrombolytic therapy and steroids. 1989;117:1404-5 (Letter)
- Kerber RE (see Hite et al). 1989;117:569-76
- Kern MJ (see Deligonul et al). 1989;117:509-14
- (see Deligonul et al). 1989;117:997-1002
- (see Labovitz et al). 1989;117:1003-8
- Keroack MA (see Aragam et al). 1989;117:1392-4 (Brief comm.)
- Kessler KM, Interian A Jr, Cox M, Topaz O, De Marchena EJ, Myerburg RJ. Proarrhythmia related to a kinetic and dynamic interaction of mexiletine and theophylline. 1989;117:964-6 (Brief comm.)
- Kesteloot H (see Rogiers et al). 1989;117:1278-83
- Khan MAA, Al-Yousef S, Huhta JC, Bricker JT, Mullins CE, Sawyer W. Critical pulmonary valve stenosis in patients less than 1 year of age: treatment with percutaneous gradational balloon pulmonary valvuloplasty. 1989;117:1008-14
- Khatib R (see Rezkalla et al). 1989;117:391-5
- Khaw BA (see Rezkalla et al). 1989;117:391-5
- Kiat H, Maddahi J, Roy LT, Van Train K, Friedman J, Resser K, Berman DS. Comparison of technetium 99m methoxy isobutyl isonitrite and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods. 1989;117:1-11
- Kidwell GA (see Sahar et al). 1989;117:562-8
- Kieso RA (see Hite et al). 1989;117:569-76
- Kimball TR, Daniels SR, Meyer RA, Knilians TK, Plowden JS, Schwartz DC. Color flow mapping in the diagnosis of coronary artery fistula in the neonate: benefits and limitations. 1989;117:968-71 (Brief comm.)
- King SB III (see Ellis et al). 1989;117:777-82
- Kinoshita M (see Tsutomoto et al). 1989;117:599-606
- Kinoshita S, Konishi G. Electrotone inhibition and supernormal conduction. 1989;117:1402-3 (Letter)
- Kirsh MM (see Nicklas et al). 1989;117:377-81
- Kisslo J (see Davidson et al). 1989;117:411-7
- (see Sheikh et al). 1989;117:623-8
- Kisslo K (see Davidson et al). 1989;117:411-7
- (see Sheikh et al). 1989;117:206-10 (Brief comm.)
- Kitabatake A (see Masuyama et al). 1989;117:133-9
- Klein GJ (see Fujimura et al). 1989;117:977-9 (Brief comm.)
- Klein LS (see Miles et al). 1989;117:112-21
- Kligfield P (see Peller and Kligfield). 1989;117:1408-9 (Letter re-ply)
- Kline CH (see Johnson et al). 1989;117:690-2 (Brief comm.)
- Klipstein RH (see Bogren et al). 1989;117:1214-22
- Kloner RA (see Rezkalla and Kloner). 1989;117:706-8 (Editorial)
- (see Rezkalla et al). 1989;117:391-5
- Kloppenborg PWC (see Tan et al). 1989;117:1406-7 (Letter)
- Klopper JW (see Mücke et al). 1989;117:474-5py in ambulatory elderly patients with hypertension. 1989;117:250-5 (Symposium)
- Knight AA, Hollenberg M, London MJ, Mangano DT, S.P.I. Re-search Group. Myocardial ischemia in patients awaiting coronary artery bypass grafting. 1989;117:1189-95
- Knilians TK (see Kimball et al). 1989;117:968-71 (Brief comm.)
- Knutson ML (see MacIsaac et al). 1989;117:783-90
- Kodama K (see Masuyama et al). 1989;117:133-9
- Koiwaya Y (see Unoki et al). 1989;117:1159-61 (Brief comm.)
- Komsuoglu B (see Littler and Komsuoglu). 1989;117:723-8 (Symposium)
- Konishi G (see Kinoshita and Konishi). 1989;117:1402-3 (Letter)
- Konstam MA (see Eichhorn et al). 1989;117:1203-9
- Korhonen U-R (see Ikäheimo et al). 1989;117:837-41
- Kou WH (see Baerman et al). 1989;117:342-7
- (see Pinto et al). 1989;117:1283-7
- Kourouklis KV (see Michaelides et al). 1989;117:1035-41
- Kowey PR (see O'Connor et al). 1989;117:848-53
- Krakoff LR. Nicardipine monotherapy in ambulatory elderly patients with hypertension. 1989;117:250-5 (Symposium)
- Kramer JR Jr (see Bruschke et al). 1989;117:296-305
- Krause PC, Inoue H, Zipes DP. Electrophysiologic alterations produced by hypoxia in the canine heart. 1989;117:550-61
- Kreger BE, Anderson KM, Kannel WB. Prevalence of intraven-tricular block in the general population: the Framingham Study. 1989;117:903-10 (Prog. cardi-ol.)
- Kronmal R (see Eaker et al). 1989;117:71-81
- Kronzon I (see Tunick et al). 1989;117:1161-5 (Brief comm.)
- Krueger SK (see Orme et al). 1989;117:11-7
- Krueger WB (see Batchelor et al). 1989;117:1264-70
- Kubo S (see Nishimura et al). 1989;117:100-5
- Kubota J (see Nishimura et al). 1989;117:100-5
- Küçükoglu S (see Özder et al). 1989;117:1407-8 (Letter)
- Kugler JD, Danford DA. Pacemakers in children: an update. 1989;117:665-79 (Curriculum cardi-ol.)
- Kühl U (see Wolff et al). 1989;117:1303-9
- Kupersmith J (see Duo et al). 1989;117:854-61
- Küpper AJF (see Verheugt et al). 1989;117:1018-22
- Kuroiwa A (see Abe et al). 1989;117:1223-33
- Kus T (see Dubuc et al). 1989;117:370-6

L

- L'Abbate A (see Simonetti et al). 1989;117:323-31
- Labovitz AJ, Bryg RJ, Halbe D. Doppler-estimated mitral valve area. 1989;117:1404 (Letter reply)
- , Lewen M, Kern MJ, Vandormael M, Mrosek DG, Byers SL, Pearson AC, Chaitman BR. The effects of successful PTCA on left ventricular function: assessment by exercise echocardi-ography. 1989;117:1003-8
- (see Stoddard et al). 1989;117:395-402
- (see Stoddard et al). 1989;117:966-8 (Brief comm.)
- Lackland DT (see Keil et al). 1989;117:1022-9
- Lambert C (see Dubuc et al). 1989;117:370-6
- Lambertz H, Minalc C, Flachskampf FA, Zander M, Bardos P, Messmer BJ, Hanrath P. Long-term follow-up after Carpentier tricuspid valvuloplasty. 1989;117:615-22
- Lamfers EJP (see Tan et al). 1989;117:1406-7 (Letter)
- Latham RD, Mulrow JP, Virmani R, Robinowitz M, Moody JM. Recently diagnosed idiopathic dilated cardiomyopathy: inci-dence of myocarditis and efficacy of prednisone therapy. 1989;117:876-82
- Latini R, Barbieri E, Castello C, Marchi S, Sica A, Gerosa G, Rossi R, Zardini P. Propafenone and 5-hydroxypropafenone con-centrations in the right atrium of patients undergoing heart surgery. 1989;117:497-8 (Brief comm.)
- Latour J-G (see de Lorgeril et al). 1989;117:523-32
- Lavallée M (see de Lorgeril et al). 1989;117:523-32
- Lawson WE (see Vlay et al). 1989;117:980-6 (Editorial)
- Leclercq JF (see Bayés de Luna et al). 1989;117:151-9 (Curriculum cardi-ol.)
- Lee BI (see Barry et al). 1989;117:332-41
- Lee DD-P (see Iosa et al). 1989;117:882-7
- Lees KR (see Reid et al). 1989;117:751-5 (Symposium)
- Lefer AM (see Bhat et al). 1989;117:799-803
- Leier CV, Binkley PF, Starling RC, Huss-Randolph P. Disparity between improvement in left ventricular function and changes in clinical status and exercise capacity during chronic enoxi-mone therapy. 1989;117:1092-8
- Leizorovitz A (see André-Fouet et al). 1989;117:892-902 (Curric-ulum cardi-ol.)
- Leimner JH (see Nicklas et al). 1989;117:377-81
- Leonetti G. The clinical performance of nicardipine in elderly hy-pertensive patients with concomitant diseases. 1989;117:266-9 (Symposium)
- Leppäluoto PJ (see Ikäheimo et al). 1989;117:837-41
- Lerch R (see de Bruyne et al). 1989;117:629-35
- Leriche H (see Hallali et al). 1989;117:957-9 (Brief comm.)
- Leung MP (see Lo et al). 1989;117:1157-9 (Brief comm.)
- Lev M (see Ring et al). 1989;117:1233-40
- Levin RN (see Pavlides et al). 1989;117:1390-2 (Brief comm.)
- Levine RA (see Choong et al). 1989;117:636-42
- Lewen M (see Labovitz et al). 1989;117:1003-8
- Lewis SA (see Old et al). 1989;117:1165-7 (Brief comm.)
- Lichtlen PR (see Mücke et al). 1989;117:474-5 (Brief comm.)
- Lie KI (see Posma et al). 1989;117:1404 (Letter)
- (see van Wijk et al). 1989;117:365-9
- Lieberman EH (see Mok et al). 1989;117:1171-3 (Brief comm.)
- Lilly LS (see Mok et al). 1989;117:1171-3 (Brief comm.)
- Limas C (see Limas et al). 1989;117:1310-6

- Limas CJ, Limas C, Goldenberg IF. Intracellular distribution of adrenoceptors in the failing human myocardium. 1989;117:1310-6
- Lin F-C (see Yeh et al). 1989;117:1041-9
- Lin F-Y (see Lo et al). 1989;117:959-62 (Brief comm.)
- Lin Y-T (see Wu et al). 1989;117:697-9 (Brief comm.)
- Lisbona R (see Silberberg et al). 1989;117:532-7
- Lister JW (see Furukawa et al). 1989;117:1050-9
- Litaker MS (see Keil et al). 1989;117:1022-9
- Little WC (see Downes et al). 1989;117:1106-12
- Littler WA. Nicardipine in the elderly hypertensive: a review of experience in the United Kingdom. 1989;117:262-5 (Symposium)
- , Komsuoglu B. Which is the most accurate method of measuring blood pressure? 1989;117:723-8 (Symposium)
- Lloyd TR, Marvin WJ Jr. Age at death in the hypoplastic left heart syndrome: multivariate analysis and importance of the coronary arteries. 1989;117:1337-43
- Lo H-M, Lin F-Y, Jong Y-S, Tseng Y-Z, Wu T-L. Ebstein's anomaly with ventricular tachycardia: evidence for the arrhythmogenic role of the atrialized ventricle. 1989;117:959-62 (Brief comm.)
- Lo RNS, Leung MP, Yau KK, Cheung DLC. Transvenous antegrade balloon angioplasty for recatheterization of the aorta in an infant. 1989;117:1157-9 (Brief comm.)
- Loaldi A, Fabbiochi F, Montorsi P, De Cesare N, Bartorelli A, Polese A, Guazzi MD. Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina. 1989;117:315-22
- Loge D (see Bouchard et al). 1989;117:1099-1105
- London MJ (see Knight et al). 1989;117:1189-95
- Long R, Younes M, Patton N, Hershfield E. Tuberculous pericarditis: long-term outcome in patients who received medical therapy alone. 1989;117:1133-9
- Longmore DB (see Bogen et al). 1989;117:1214-22
- Lown B (see Saini et al). 1989;117:1253-8
- Luijten HE (see Kamp et al). 1989;117:991-6
- Luther RR, Glassman HN, Estep CB, Maurath CJ, Jordan DC. The effects of terazosin and methyldihydralazine on blood pressure and serum lipids. 1989;117:842-7
- Luzza F (see Oretto et al). 1989;117:1403 (Letter reply)
- Lyerly HK (see Sheikh et al). 1989;117:623-8

M

- Macaya C (see Alfonso et al). 1989;117:695-7 (Brief comm.)
- Macdonald NJ (see Reid et al). 1989;117:751-5 (Symposium)
- MacIsaac HC, Knudtson ML, Robinson VJ, Manyari DE. Is the residual translesional pressure gradient useful to predict regional myocardial perfusion after percutaneous transluminal coronary angioplasty? 1989;117:783-90
- Maddahi J (see Kiat et al). 1989;117:1-11
- (see Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)
- Madrid W (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
- Mallon SM (see Chahine and Mallon). 1989;117:186-8 (Brief comm.)
- Mancia G (see Giannattasio et al). 1989;117:740-5 (Symposium)
- Mancini GBJ (see Pinto et al). 1989;117:1283-7
- Mangano DT (see Knight et al). 1989;117:1189-95
- Mann DL (see Choong et al). 1989;117:819-29
- Manning WJ (see Ferguson et al). 1989;117:127-32
- Manolis AS (see Estes et al). 1989;117:1060-4
- Manyari DE (see MacIsaac et al). 1989;117:783-90
- Marantz P (see Sharif et al). 1989;117:1333-6
- Marchi S (see Latini et al). 1989;117:497-8 (Brief comm.)
- Margulis T (see Grenadier et al). 1989;117:479-81 (Brief comm.)
- Maroko PR (see Wappel et al). 1989;117:37-42
- Martinell J (see Torrecilla et al). 1989;117:1389-90 (Brief comm.)
- Marvin WJ Jr (see Lloyd and Marvin). 1989;117:1337-43
- Marzilli M (see Simonetti et al). 1989;117:323-31
- Mason JW (see Orme et al). 1989;117:11-7
- (see Orme et al). 1989;117:680-3 (Prog. cardiol.)
- Masotti G (see Casolo et al). 1989;117:468-72 (Brief comm.)
- Massie BM (see Bouchard et al). 1989;117:1099-1105
- Masuda T (see Yamakado et al). 1989;117:1379-81 (Brief comm.)
- Masuyama T, Kitabatake A, Kodama K, Uematsu M, Nakatani S, Kamada T. Semiquantitative evaluation of aortic regurgitation by Doppler echocardiography: effects of associated mitral stenosis. 1989;117:133-9
- Matsubara H, Mori Y, Inada M. ANP in AML. 1989;117:1407 (Letter reply)
- Matsuda Y, Fujii B, Takashiba K, Hamada Y, Ohno H, Ebihara H, Hyakuna E. Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis. 1989;117:1014-7
- (see Yoshino et al). 1989;117:1316-9
- Matsui S, Murakami E, Takekoshi N, Nakatou H, Enyama H, Takeda F. Myocardial tissue characterization by magnetic resonance imaging in Fabry's disease. 1989;117:472-4 (Brief comm.)
- Matsuo H (see Nakatani et al). 1989;117:486-9 (Brief comm.)
- Mattos KL (see Rokey et al). 1989;117:952-3 (Brief comm.)
- Maulik D (see Hustead et al). 1989;117:1383-5 (Brief comm.)
- Maurath CJ (see Luther et al). 1989;117:842-7
- McCann R (see Sheikh et al). 1989;117:623-8
- McClaran J (see Forette et al). 1989;117:256-61 (Symposium)
- McFarland KF, Boniface ME, Hornung CA, Earnhardt W, Humphries JO'N. Risk factors and noncontraceptive estrogen use in women with and without coronary disease. 1989;117:1209-14
- McGille MJ (see Pinto et al). 1989;117:1283-7
- McKusick KA (see Kaye et al). 1989;117:1169-71 (Brief comm.)
- Mead RH (see Winkle et al). 1989;117:122-7
- Meier B (see de Bruyne et al). 1989;117:629-35
- Meijer A (see Verheugt et al). 1989;117:1018-22
- Mena I (see Narahara et al). 1989;117:1030-5
- Ménard J. Symposium on modern methods of investigating converting enzyme inhibition: Introduction: aims of the symposium. 1989;117:715-6 (Symposium)
- (see Michel et al). 1989;117:756-67 (Symposium)
- (see Nussberger et al). 1989;117:717-22 (Symposium)
- Merin G (see Grenadier et al). 1989;117:479-81 (Brief comm.)
- Messmer BJ (see Lambert et al). 1989;117:615-22
- Metcalfe M (see Smith et al). 1989;117:475-9 (Brief comm.)
- Metherall JA (see Eichhorn et al). 1989;117:1203-9
- Meyer RA (see Kimball et al). 1989;117:968-71 (Brief comm.)
- Michaelides AP, Vysoulis GP, Triposkiadis FK, Papadakis PV, Kourouklis KV, Toutouzas PK. Significance of ST segment depression in exercise-induced supraventricular extrasystoles. 1989;117:1035-41
- Michel J-B, Guettier C, Reade R, Sayah S, Corvol P, Ménard J. Immunologic approaches to blockade of the renin-angiotensin system: a review. 1989;117:756-67 (Symposium)
- Michelassi C (see Simonetti et al). 1989;117:323-31
- Mickelson JK (see Pinto et al). 1989;117:1283-7
- Miles WM, Heger JJ, Minardo JD, Klein LS, Prystowsky EN, Zipes DP. The electrophysiologic effects of enoximone in patients with preexisting ventricular tachyarrhythmias. 1989;117:112-21
- MILIS Study Group (see Pohjola-Sintonen et al). 1989;117:809-18
- MILIS Study Group (see Tofter et al). 1989;117:86-92
- Miller DH (see Schreiber et al). 1989;117:435-43 (Curriculum cardi.)
- Millette D (see de Lorgeril et al). 1989;117:523-32
- Milon H (see André-Pouet et al). 1989;117:892-902 (Curriculum cardi.)
- Minale C (see Lambert et al). 1989;117:615-22
- Minardo JD (see Miles et al). 1989;117:112-21
- Mitrani A (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
- Mitrovic V, Thormann J, Neuzner J, Bahawar H, Volz M, Dieterich H-A, Schlepper M. Hemodynamic, antiischemic, and neurohumoral effects of enoximone in patients with coronary artery disease. 1989;117:106-11
- Miura DS (see Dangman et al). 1989;117:1271-7
- Miyamoto T (see Yoshino et al). 1989;117:1316-9
- Miyatake K (see Nakatani et al). 1989;117:486-9 (Brief comm.)
- Mizumaki K (see Fujiki et al). 1989;117:699-701 (Brief comm.)
- Mohiaddin RH (see Bogen et al). 1989;117:1214-22
- Mohri M, Tomoike H, Inoue T, Nakamura M. Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs. 1989;117:43-52
- Mohsenifar Z, Amin DK, Shah PK. Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics. 1989;117:887-91
- Mok P, Lieberman EH, Lilly LS, Schafer AI, DiSesa VJ, Rutherford CR. Severe hemolytic anemia following mitral valve repair. 1989;117:1171-3 (Brief comm.)
- Montemartini C (see Previtali et al). 1989;117:92-9

- Montorsi P (see Loaldi et al). 1989;117:315-22
 Moody JM (see Latham et al). 1989;117:876-82
 Morady F (see Baerman et al). 1989;117:342-7
 Morganti A (see Giannattasio et al). 1989;117:740-5 (Symposium)
 Mori K, Dohi T. Mitral and pulmonary vein blood flow patterns in cor triatriatum. 1989;117:1167-9 (Brief comm.)
 Mori Y (see Matsubara et al). 1989;117:1407 (Letter reply)
 Moroe K (see Furukawa et al). 1989;117:1050-9
 Morris SN (see Bourdillon et al). 1989;117:492-5 (Brief comm.)
 Moskowitz D (see Nicklas et al). 1989;117:377-81
 Mrosek DG (see Labovitz et al). 1989;117:1003-8
 — (see Stoddard et al). 1989;117:395-402
 Mücke A, Daniel WG, Wolpers HG, Klöpper JW, Lichtlen PR. Improved visualization of discrete subvalvular aortic stenosis by transesophageal color-coded Doppler echocardiography. 1989;117:474-5 (Brief comm.)
 Muesan S (see Carretta et al). 1989;117:229-35 (Symposium)
 Mukerji V, Holman AJ, Alpert MA. The clinical description of angina pectoris in the elderly. 1989;117:705 (Brief comm.)
 Muller JE (see Pohjola-Sintonen et al). 1989;117:809-18
 — (see Tofler et al). 1989;117:86-92
 Mullins CE (see Khan et al). 1989;117:1008-14
 Mulrow JP (see Latham et al). 1989;117:876-82
 Mulvagh SL (see Rokey et al). 1989;117:952-3 (Brief comm.)
 Murakami E (see Matsui et al). 1989;117:472-4 (Brief comm.)
 Murakawa Y, Gliner BE, Shankar B, Thakor NV. The effect of an unsuccessful subthreshold shock on the energy requirement for the subsequent defibrillation. 1989;117:1065-9
 Murphy AM, Blades M, Daniels S, James FW. Blood pressure and cardiac output during exercise: a longitudinal study of children undergoing repair of coarctation. 1989;117:1327-32
 Murphy ML (see Peng et al). 1989;117:515-22
 Mutter ML (see Shawi et al). 1989;117:537-42
 Myerburg RJ (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
 — (see Kessler et al). 1989;117:964-6 (Brief comm.)
 Myhre E (see Myrreng and Myhre). 1989;117:870-5
 Myrreng Y, Myhre E. Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography. 1989;117:870-5

N

- Nademanee K (see Stevenson et al). 1989;117:452-67 (Prog. cardi-ol.)
 Nagamoto Y (see Abe et al). 1989;117:1223-33
 Nagata S (see Nakatani et al). 1989;117:486-9 (Brief comm.)
 Nakagawa S (see Unoki et al). 1989;117:1159-61 (Brief comm.)
 Nakamura F (see Ogasawara et al). 1989;117:804-8
 — (see Tomaru et al). 1989;117:275-81
 Nakamura M (see Mohri et al). 1989;117:43-52
 Nakano T (see Yamakado et al). 1989;117:1379-81 (Brief comm.)
 Nakatani S, Beppu S, Miyatake K, Matsuo H, Nagata S, Nimura Y. Interruption of aortic regurgitation by the intimal flap of an aortic dissection: Doppler echocardiographic observations. 1989;117:486-9 (Brief comm.)
 — (see Masuyama et al). 1989;117:133-9
 Nakatou H (see Matsui et al). 1989;117:472-4 (Brief comm.)
 Narahara KA, Thompson CJ, Hazen JF, Brizendine M, Mena I. The effect of beta blockade on single photon emission computed tomographic (SPECT) thallium-201 images in patients with coronary disease. 1989;117:1030-5
 Nardella P (see Barry et al). 1989;117:332-41
 Nelson SD (see Baerman et al). 1989;117:342-7
 Nesmith JW (see Sheikh et al). 1989;117:206-10 (Brief comm.)
 Neuzner J (see Mitrovic et al). 1989;117:106-11
 Newell JB (see Asch et al). 1989;117:402-11
 Newlands JS (see Bouchard et al). 1989;117:1099-105
 Newton MT (see Ngo et al). 1989;117:385-90
 Ngo L, Wyeth RP, Bissett JK, Hester WL, Newton MT, Sallman AL, Winters CJ, Vesely DL. Prohormone atrial natriuretic peptides 1-30, 31-67, and 99-126 increase in proportion to right ventricular pacing rate. 1989;117:385-90
 Nicholas JA (see Coplan et al). 1989;117:1070-5
 Nicklas JM, Giachero DA, Moskowitz D, Lemmer JH, Kirsh MM, Grekin RJ. Natriuresis associated with elevated plasma atrial natriuretic hormone during supraventricular tachycardia. 1989;117:377-81
 Nielsen D (see Andersen et al). 1989;117:82-6
 Nimura Y (see Nakatani et al). 1989;117:486-9 (Brief comm.)

- Nishimoto K (see Ino et al). 1989;117:1400-1 (Letter)
 Nishimura H, Kubo S, Ueyama M, Kubota J, Kawamura K. Peripheral hemodynamic effects of captopril in patients with congestive heart failure. 1989;117:100-5
 Niwano S, Aizawa Y, Satoh M, Shibata A. Low-energy electrical catheter ablation of sustained ventricular tachycardia originating from the right ventricle. 1989;117:1155-7 (Brief comm.)
 Nixon JV (see Old et al). 1989;117:1165-7 (Brief comm.)
 Nolting M (see Choong et al). 1989;117:819-29
 Nomeir A-M (see Downes et al). 1989;117:1106-12
 Nussberger J, Juillerat L, Perret F, Waeber B, Bellet M, Brunner HR, Ménard J. Need for plasma angiotensin measurements to investigate converting-enzyme inhibition in humans. 1989;117:717-22 (Symposium)
 Nygaard TW (see Reed et al). 1989;117:60-71

O

- O'Connor KM, Friehling TD, Kowey PR. The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models. 1989;117:848-53
 Ogasawara K, Aizawa T, Nakamura F, Kato K. Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis. 1989;117:804-8
 Ogilby JD (see Chan et al). 1989;117:1140-6 (Curriculum cardi-ol.)
 Ohman EM (see Wiseman et al). 1989;117:1381-3 (Brief comm.)
 Ohno H (see Matsuda et al). 1989;117:1014-7
 Old WD, Paulsen W, Lewis SA, Nixon JV. Pacemaker lead-induced tricuspid stenosis: diagnosis by Doppler echocardiography. 1989;117:1165-7 (Brief comm.)
 Oldridge NB, Connolly C. Oxygen uptake and heart rate during cross-country skiing and track walking after myocardial infarction. 1989;117:495-7 (Brief comm.)
 Olson LC (see Frichione et al). 1989;117:1411-4 (Editorial)
 Oretto G, Satullo G, Luzzo F. Electrotonic inhibition and super-normal conduction. 1989;117:1403 (Letter reply)
 Orme EC, Wray RB, Barry WH, Krueger SK, Mason JW. Comparison of three techniques for percutaneous balloon aortic valvuloplasty of aortic stenosis in adults. 1989;117:11-7
 —, —, —, Mason JW. Balloon mitral valvuloplasty via retrograde left atrial catheterization. 1989;117:680-3 (Prog. cardi-ol.)
 Osborne JA (see Bhat et al). 1989;117:799-803
 Ostojic MC, Young JB, Hess KR, Belgrade University/Baylor College of Medicine Cardiology Research Group. Prediction of left ventricular ejection fraction using a unique method of chest x-ray and ECG analysis: a noninvasive index of cardiac performance based on the concept of heart volume and mass interrelationship. 1989;117:595-8
 Ostrzega E, Maddahi J, Honma H, Crues JV III, Resser KJ, Charuzi Y, Berman DS. Quantification of left ventricular myocardial mass in humans by nuclear magnetic resonance imaging. 1989;117:444-52 (Prog. cardi-ol.)
 Özder AB, Küçükoglu S, Doğar H, Karcier SM, Demiroğlu C. Exercise-induced AV block. 1989;117:1407-8 (Letter)

P

- Palacios IF (see Brandi-Pifano et al). 1989;117:25-31
 Palant A (see Grenadier et al). 1989;117:479-81 (Brief comm.)
 Palmero H (see Iosa et al). 1989;117:882-7
 Panciroli C (see Previtali et al). 1989;117:92-9
 Paolini D (see Gross et al). 1989;117:953-7 (Brief comm.)
 Papadakis PV (see Michaelides et al). 1989;117:1035-41
 Parker CB (see Pohjola-Sintonen et al). 1989;117:809-18
 Patt NL (see Freeman et al). 1989;117:306-14
 Patton N (see Long et al). 1989;117:1133-9
 Paulsen W (see Old et al). 1989;117:1165-7 (Brief comm.)
 Pavlides GS, Levin RN, Hauser AM. Left ventricular recurrence of a resected left atrial myxoma. 1989;117:1390-2 (Brief comm.)
 Pearl W. Regression of endocardial fibroelastosis. 1989;117:1401 (Letter)
 Pearson AC (see Labovitz et al). 1989;117:1003-8
 — (see Stoddard et al). 1989;117:966-8 (Brief comm.)
 Peels CH (see Verheugt et al). 1989;117:1018-22
 Pelc L (see Al-Wathiqui et al). 1989;117:791-8
 Peller OG, Kligfield P. Exercise-induced AV block. 1989;117:1408-9 (Letter reply)
 Peng CF, Murphy ML, Colwell K, Straub KD. Controlled versus hyperemic flow during reperfusion of jeopardized ischemic myocardium. 1989;117:515-22

- Penn OCKM (see Cheriex et al). 1989;117:1394-6 (Brief comm.)
— (see de Zwaan et al). 1989;117:657-65 (Curriculum cardi.)
Penonen E (see Hoit et al). 1989;117:1119-26
Pérez MR (see Torrecilla et al). 1989;117:1389-90 (Brief comm.)
Perret F (see Nussberger et al). 1989;117:717-22 (Symposium)
Pflugfelder PW, Sechtem UP, White RD, Cassidy MM, Schiller NB, Higgins CB. Noninvasive evaluation of mitral regurgitation by analysis of left atrial signal loss in cine magnetic resonance. 1989;117:1113-9
Pileggi F (see Arie et al). 1989;117:201-2 (Brief comm.)
Pillot M (see André-Fouet et al). 1989;117:892-902 (Curriculum cardi.)
Pindborg T (see Svanegaard et al). 1989;117:194-5 (Brief comm.)
Pinto IMF, Kou WH, McGillem MJ, DeBoe SF, Mickelson JK, Mancini GBJ. Induction of ventricular arrhythmia by high and low osmolarity ionic and nonionic contrast media. 1989;117:1283-7
Pless B (see Winkle et al). 1989;117:122-7
Plowden JS (see Kimball et al). 1989;117:968-71 (Brief comm.)
Podgor MJ, Kannel WB, Cassel GH, Sperduto RD. Lens changes and the incidence of cardiovascular events among persons with diabetes. 1989;117:642-8
Podrid PJ. Spontaneous reversion of VF. 1989;117:1401-2 (Letter reply)
— (see Saini et al). 1989;117:1253-8
Poggessi L (see Casolo et al). 1989;117:468-72 (Brief comm.)
Pohjola-Sintonen S, Muller JE, Stone PH, Willich SN, Antman EM, Davis VG, Parker CB, Braunwald E, MILIS study group. Ventricular septal and free wall rupture complicating acute myocardial infarction: experience in the Multicenter Investigation of Limitation of Infarct Size. 1989;117:809-18
Pohost GM (see Bouchard et al). 1989;117:281-9
Polakoff R (see Agatston et al). 1989;117:1320-6
Polèse A (see Loldi et al). 1989;117:315-22
Pollick C. LA enlargement in hypertension. 1989;117:1409-10 (Letter)
Poole WK (see Toffler et al). 1989;117:86-92
Popvic AD (see Rosenzweig et al). 1989;117:962-3 (Brief comm.)
Posma JL, Hamer HPM, Lie KI. Doppler-estimated mitral valve area. 1989;117:1404 (Letter)
Poulter NR (see Sever et al). 1989;117:735-9 (Symposium)
Prasad K, Kalra J, Chan WP, Chaudhary AK. Effect of oxygen free radicals on cardiovascular function at organ and cellular levels. 1989;117:1196-202
Presti CF, Hart RG. Thyrotoxicosis, atrial fibrillation, and embolism, revisited. 1989;117:976-7 (Brief comm.)
Previtali M, Panciroli C, De Ponti R, Chimenti M, Montemartini C, Salerno JA. Time-related decrease in sensitivity to ergonovine in patients with variant angina. 1989;117:92-9
Priori SG (see Facchini et al). 1989;117:1258-64
Prisant LM (see Gross et al). 1989;117:953-7 (Brief comm.)
Prystowsky EN (see Miles et al). 1989;117:112-21
Pucillo AL, Schechter AG, Kay RH, Herman MV. Magnetic resonance imaging of vascular conduits in coarctation of the aorta. 1989;117:482-5 (Brief comm.)
Pulido JI (see Brandi-Pifano et al). 1989;117:25-31

Q

- Quick A (see Hustead et al). 1989;117:1383-5 (Brief comm.)
Quintanilla MA, Haque AK. Thrombotic obstruction of prosthetic aortic valve presenting as acute myocardial infarction. 1989;117:1378-9 (Brief comm.)

R

- Rábago G (see Torrecilla et al). 1989;117:1389-90 (Brief comm.)
Radovsky AS, Van Vleet JF. Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs. 1989;117:1288-98
Rahimtoola SH. The hibernating myocardium. 1989;117:211-21 (Editorial)
— (see Jamison et al). 1989;117:607-14
Ramsdale DR, Schofield PM. Endomyocardial trauma during balloon mitral valvuloplasty. 1989;117:685-7 (Brief comm.)
Rao PS. Which aortic coarctations should we balloon-dilate? 1989;117:987-9 (Editorial)
Rati MAN (see Arie et al). 1989;117:201-2 (Brief comm.)
Reade R (see Michel et al). 1989;117:756-67 (Symposium)

- Rechavia E (see Strasberg et al). 1989;117:160-3 (Curriculum cardi.)
Reed DC, Beller GA, Nygaard TW, Tedesco C, Watson DD, Burwell LR. The clinical efficacy and scintigraphic evaluation of post-coronary bypass patients undergoing percutaneous transluminal coronary angioplasty for recurrent angina pectoris. 1989;117:60-71
Rees RSO (see Bogren et al). 1989;117:1214-22
Reeves RC (see Bouchard et al). 1989;117:281-9
Reid JL, Macdonald NJ, Lees KR, Elliott HL. Angiotensin-converting enzyme inhibitors in the elderly. 1989;117:751-5 (Symposium)
Reiffel JA (see Sahar et al). 1989;117:562-8
Resser KJ (see Kiat et al). 1989;117:1-11
— (see Ostrzega et al). 1989;117:444-52 (Prog. cardi.)
Reyes E (see Stewart et al). 1989;117:140-4
Rezkalla SH, Kloner RA. Management strategies in viral myocarditis. 1989;117:706-8 (Editorial)
—, —, Khaw BA, Haber E, Fallon JT, Smith FE, Khatib R. Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment. 1989;117:391-5
Ring ME, Huang SKS, Graham AR, Gorman G, Bharati S, Lev M. Catheter ablation of the ventricular septum with radiofrequency energy. 1989;117:1233-40
Ripley KL (see Bump et al). 1989;117:577-84
Riuli EP (see Ferguson et al). 1989;117:18-24
Rizzo A (see Amico et al). 1989;117:195-8 (Brief comm.)
Rizzon P (see Amico et al). 1989;117:195-8 (Brief comm.)
Roan H-R (see Wu et al). 1989;117:697-9 (Brief comm.)
Roberts WC. Recent studies on the effects of beta blockers on blood lipid levels. 1989;117:709-14 (Editorial)
Robertson T (see Toffler et al). 1989;117:86-92
Robinowitz M, Virmani R, Smialek JE. Cocaine-induced myocarditis. 1989;117:1398-9 (Letter reply)
— (see Latham et al). 1989;117:876-82
Robinson VJ (see MacIsaac et al). 1989;117:783-90
Rodrigo JL (see Alfonso et al). 1989;117:695-7 (Brief comm.)
Rogiers P, Vermeir W, Kesteloot H, Strooband R. Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure. 1989;117:1278-83
Rokey R, Mulvagh SL, Cheirif J, Mattox KL, Johnston DL. Lipomatous encasement and compression of the heart: ante-mortem diagnosis by cardiac nuclear magnetic resonance imaging and catheterization. 1989;117:952-3 (Brief comm.)
Roos JP (see Verheugt et al). 1989;117:1018-22
Rosengarten M (see Dubuc et al). 1989;117:370-6
Rosenzweig A, Harrigan P, Popvic AD. Left ventricular myxoma simulating aortic stenosis. 1989;117:962-3 (Brief comm.)
Rossi R (see Latini et al). 1989;117:497-8 (Brief comm.)
Rostagno C (see Casolo et al). 1989;117:468-72 (Brief comm.)
Roubin GS (see Ellis et al). 1989;117:777-82
Rousseau G (see de Lorgeril et al). 1989;117:523-32
Roy LT (see Kiat et al). 1989;117:1-11
Rozanski JJ (see Furukawa et al). 1989;117:1050-9
Ruder MA (see Winkle et al). 1989;117:122-7
Ruskin JN (see Estes et al). 1989;117:1060-4
Ruskoaho HJ (see Ikäheimo et al). 1989;117:837-41
Russo G, Tamburino C, Cuscuà S, Arcidiacono G, Foti R, Grimaldi DR, Calvi V, Felis S, Giuffrida G. Cardiac hydatid cyst with clinical features resembling subaortic stenosis. 1989;117:1385-7 (Brief comm.)
Rutherford CR (see Mok et al). 1989;117:1171-3 (Brief comm.)
Rutherford JD (see Hands and Rutherford). 1989;117:1409 (Letter reply)
Rutishauser W (see de Bruyne et al). 1989;117:629-35

S

- Sabiston DC (see Sheikh et al). 1989;117:623-8
Sacks H (see Bhat et al). 1989;117:799-803
Sade R (see Johnson et al). 1989;117:690-2 (Brief comm.)
Safadi T (see Grenadier et al). 1989;117:479-81 (Brief comm.)
Sagie A (see Strasberg et al). 1989;117:160-3 (Curriculum cardi.)
Sahar DI, Reiffel JA, Bigger JT Jr, Squatrito A, Kidwell GA. Efficacy, safety, and tolerance of d-sotalol in patients with refractory supraventricular tachyarrhythmias. 1989;117:562-8
Sahn DJ (see Hoit et al). 1989;117:1119-26
Saini V, Podrid PJ, Slater W, Low N. Encainide and flecainide: Are they interchangeable? 1989;117:1253-8

- Sakuma N (see Yoshino et al). 1989;117:1316-9
- Salem DN (see Eichhorn et al). 1989;117:1203-9
- Salerno JA (see Previtali et al). 1989;117:92-9
- Sallman AL (see Ngo et al). 1989;117:385-90
- Samet P (see Agatston et al). 1989;117:1320-6
- Samuels L (see Camp et al). 1989;117:702-4 (Brief comm.)
- Saruta T. Effects of nicardipine on blood pressure and renal function in elderly hypertensive patients with renal dysfunction. 1989;117:243-9 (Symposium)
- Sasayama S (see Fujiki et al). 1989;117:699-701 (Brief comm.)
- Sato M (see Niwano et al). 1989;117:1155-7 (Brief comm.)
- Satullo G (see Oretto et al). 1989;117:1403 (Letter reply)
- Saunders DE Jr (see Keil et al). 1989;117:1022-9
- Savage M (see Wappel et al). 1989;117:37-42
- Sawyer W (see Khan et al). 1989;117:1008-14
- Sayah S (see Michel et al). 1989;117:756-67 (Symposium)
- Schafer AI (see Mok et al). 1989;117:1171-3 (Brief comm.)
- Schechter AG (see Pucillo et al). 1989;117:482-5 (Brief comm.)
- Scheinman M (see Dae et al). 1989;117:861-9
- Schiller NB (see Bouchard et al). 1989;117:1099-105 (see Pflugfelder et al). 1989;117:1113-9
- Schlaepfer H (see de Bruyne et al). 1989;117:629-35
- Schlepper M (see Mitrovic et al). 1989;117:106-11
- Schmidt P (see Winkle et al). 1989;117:122-7
- Schnur S (see Agatston et al). 1989;117:1320-6
- Schofield PM (see Ramsdale and Schofield). 1989;117:685-7 (Brief comm.)
- Schreiber TL, Miller DH, Zola B. Management of myocardial infarction shock: current status. 1989;117:435-43 (Curriculum cardi.)
- Schröder E (see Hite et al). 1989;117:569-76
- Schulman P (see White et al). 1989;117:145-50
- Schultheiss H-P (see Wolff et al). 1989;117:1303-9
- Schwartz DC (see Kimball et al). 1989;117:968-71 (Brief comm.)
- Schwartz PJ (see Facchini et al). 1989;117:1258-64 (see Vanoli et al). 1989;117:348-57
- Sclarovsky S (see Strasberg et al). 1989;117:160-3 (Curriculum cardi.)
- Sechtem UP (see Pflugfelder et al). 1989;117:1113-9
- Segal B (see Chan et al). 1989;117:1140-6 (Curriculum cardi.)
- Seravalle G (see Giannattasio et al). 1989;117:740-5 (Symposium)
- Serruys PW (see Kamp et al). 1989;117:991-6
- Sever PS. Symposium on hypertension in the elderly: focus on nicardipine—General group discussion. 1989;117:270-2 (Symposium)
- , Symposium on hypertension in the elderly: focus on nicardipine—Introduction. 1989;117:228 (Symposium)
- , Symposium on hypertension in the elderly: focus on nicardipine—Summary. 1989;117:273 (Symposium)
- , Poulter NR, Bulpitt CS. Double-blind crossover versus parallel groups in hypertension. 1989;117:735-9 (Symposium)
- Shafton E (see Geschwind et al). 1989;117:1147-52 (Prog. cardi.)
- Shah PK (see Mohsenifar et al). 1989;117:887-91
- Shah Y (see Deligonul et al). 1989;117:509-14
- Shankar B (see Murakawa et al). 1989;117:1065-9
- Sharif DS, Huhta JC, Marantz P, Hawkins HK, Yoon GY. Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy. 1989;117:1333-6
- Sharpe DN (see Webster and Sharpe). 1989;117:505-8 (Editorial)
- Shaw L (see Camp et al). 1989;117:702-4 (Brief comm.)
- Shaw FA, Chun PKC, Mutter ML, Slama RD, Donohue DJ, Zajtchuk R, Davia JE. Asymptomatic left main coronary artery disease and silent myocardial ischemia. 1989;117:537-42
- Sheikh KH, Adams DB, McCann R, Lyster HK, Sabiston DC, Kisslo K. Utility of Doppler color flow imaging for identification of femoral arterial complications of cardiac catheterization. 1989;117:623-8
- , Davidson CJ, Skelton TN, Nesmith JW, Kisslo K, Bashore TM. Intratrial septal thickening preventing percutaneous mitral valve balloon valvuloplasty. 1989;117:206-10 (Brief comm.)
- Shenasa M (see Dubuc et al). 1989;117:370-6
- Sheps DS, Heiss G. Sudden death and silent myocardial ischemia. 1989;117:177-84 (Prog. cardi.)
- Shibata A (see Niwano et al). 1989;117:1155-7 (Brief comm.)
- Shibuya I (see Uchida et al). 1989;117:769-76
- Shimazaki S (see Ino et al). 1989;117:1400-1 (Letter)
- Shrivastava S (see Dev and Shrivastava). 1989;117:1397-8 (Letter)
- Sica A (see Latini et al). 1989;117:497-8 (Brief comm.)
- Silberberg J, Haichin R, Stewart S, Lisbona R, Sniderman A. Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction. 1989;117:532-7
- Simonetti I, Michelassi C, De Caterina R, Marzilli M, L'Abbate A. Dose- and time-related vasodilator response of conduit coronary arteries to intracoronary isosorbide dinitrate in human beings. 1989;117:323-31
- Simpfendorfer C (see Tuzcu et al). 1989;117:1374-7 (Prog. cardi.)
- Sioufi A (see Kaiser et al). 1989;117:746-51 (Symposium)
- Skelton TN (see Davidson et al). 1989;117:411-7 (see Sheikh et al). 1989;117:206-10 (Brief comm.)
- Slama RD (see Shaw et al). 1989;117:537-42
- Slater W (see Saini et al). 1989;117:1253-8 (see Tunick et al). 1989;117:1161-5 (Brief comm.)
- Smialek JE (see Robinowitz et al). 1989;117:1398-9 (Letter reply)
- Smith FE (see Rezkalla et al). 1989;117:391-5
- Smith MD, Metcalfe M, DeMaria AN, Hendren WG, Walter PF, Jones EL. Hyper eosinophilic syndrome resulting in aortic and mitral stenosis: a case requiring double valve replacement. 1989;117:475-9 (Brief comm.)
- Smith V-E (see White et al). 1989;117:145-50
- Sniderman A (see Silberberg et al). 1989;117:532-7
- Sobel BE (see Devries et al). 1989;117:31-6
- Songa V (see Facchini et al). 1989;117:1258-64
- Sonoki H (see Tomaru et al). 1989;117:275-81
- Sperduto RD (see Podgor et al). 1989;117:642-8
- S.P.I. Research Group (see Knight et al). 1989;117:1189-95
- Spodick DH. ECG diagnosis of MI in LBBB. 1989;117:1409 (Letter)
- Squatrito A (see Sahar et al). 1989;117:562-8
- Starling RC (see Leier et al). 1989;117:1092-8
- Sterkman LGW (see Verheugt et al). 1989;117:1018-22
- Stevenson LW (see Bergman et al). 1989;117:204-6 (Brief comm.)
- Stevenson WG, Weiss JN, Wiener I, Nademanee K. Slow conduction in the infarct scar: relevance to the occurrence, detection, and ablation of ventricular reentry circuits resulting from myocardial infarction. 1989;117:452-67 (Prog. cardi.) (see Bergman et al). 1989;117:204-6 (Brief comm.) (see Denardo and Stevenson). 1989;117:585-9
- Stewart JM, Kaul A, Gromisch DS, Reyes E, Woolf PK, Gowitz MH. Symptomatic cardiac dysfunction in children with human immunodeficiency virus infection. 1989;117:140-4
- Stewart S (see Silberberg et al). 1989;117:532-7
- Stewart WJ (see Ascah et al). 1989;117:402-11
- Stoddard MF, Chaitman BR, Byers SL, Mrosek D, Labovitz AJ. Noninvasive assessment of diastolic and systolic properties of ibopamine in patients with congestive heart failure. 1989;117:395-402
- , Pearson AC, Kanter KR, Labovitz AJ. Left ventricular thrombus with normal left ventricular wall motion in a patient with myelofibrosis. 1989;117:966-8 (Brief comm.)
- Stone PH (see Pohjola-Sintonen et al). 1989;117:809-18 (see Tofler et al). 1989;117:86-92
- Strain J (see Berdoff et al). 1989;117:688-90 (Brief comm.)
- Stramba-Badiale M (see Vanoli et al). 1989;117:348-57
- Stransky NB (see Eichhorn et al). 1989;117:1203-9
- Strasberg B, Sagie A, Rechavia E, Sclarovsky S, Agmon J. The noninvasive evaluation of syncope of suspected cardiovascular origin. 1989;117:160-3 (Curriculum cardi.)
- Stratmann HG, Kennedy HL. Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing. 1989;117:1344-65 (Curriculum cardi.)
- Straub KD (see Peng et al). 1989;117:515-22
- Strohsnitter W (see Goldberg et al). 1989;117:543-9
- Stroobandt R (see Rogiers et al). 1989;117:1278-83
- Sugimoto T (see Tomaru et al). 1989;117:275-81
- Suliman RF (see El Habbal and Suliman). 1989;117:1127-32
- Sullivan JL. The iron paradigm of ischemic heart disease. 1989;117:1177-88 (Editorial)
- Suryapranata H (see Kamp et al). 1989;117:991-6
- Svanegaard J, Angelo-Nielsen K, Pindborg T. Atrial natriuretic peptide and acute myocardial infarction. 1989;117:194-5 (Brief comm.)
- Sweeney MB (see Fain et al). 1989;117:358-64 (see Winkle et al). 1989;117:122-7

T

- Takashiba K (see Matsuda et al). 1989;117:1014-7
- Takeda F (see Matsui et al). 1989;117:472-4 (Brief comm.)
- Takekoshi N (see Matsui et al). 1989;117:472-4 (Brief comm.)
- Takeuchi E (see Tanaka et al). 1989;117:692-5 (Brief comm.)
- Takezawa H (see Yamakado et al). 1989;117:1379-81 (Brief comm.)

- Takkunen JT (see Ikäheimo et al). 1989;117:837-41
Tamburino C (see Russo et al). 1989;117:1385-7 (Brief comm.)
Tan ACITL, van Loenhout TT, Lamfers EJP, Kloppenborg PWC, Benraad ThJ. ANP in AML. 1989;117:1406-7 (Letter)
Tanaka K (see Unoki et al). 1989;117:1159-61 (Brief comm.)
Tanaka M, Takeuchi E, Abe T. Detection of aortic valve ring abscess by intraoperative epicardial two-dimensional echocardiography. 1989;117:692-5 (Brief comm.)
Tarasoutchi F (see Arie et al). 1989;117:201-2 (Brief comm.)
Tedesco C (see Reed et al). 1989;117:60-71
Thakor NV (see Murakawa et al). 1989;117:1065-9
Thomas JD (see Choong et al). 1989;117:636-42
Thompson CJ (see Narahara et al). 1989;117:1030-5
Thormann J (see Mitrovic et al). 1989;117:106-11
Tillisch JH (see Bergman et al). 1989;117:204-6 (Brief comm.)
Toffer GH, Muller JE, Stone PH, Willich SN, Davis VG, Poole WK, Robertson T, Braunwald E, MILIS Study Group. Pericarditis in acute myocardial infarction: characterization and clinical significance. 1989;117:86-92
Toltzis HI (see Eichhorn et al). 1989;117:1203-9
Tomaru T, Uchida Y, Nakamura F, Sonoki H, Tsukamoto M, Sugimoto T. Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study. 1989;117:275-81
Tomoike H (see Mohri et al). 1989;117:43-52
Topaz O (see Kessler et al). 1989;117:964-6 (Brief comm.)
Topic N (see Bouchard et al). 1989;117:1099-1105
Torrecilla EG, Pérez MR, Alvarez L, Balaguer J, Martinell J, Rábago G. Rare attachment of left atrial myxoma: two-dimensional echocardiographic evidence. 1989;117:1389-90 (Brief comm.)
Toutouzas PK (see Michaelides et al). 1989;117:1035-41
Triposkiadis FK (see Michaelides et al). 1989;117:1035-41
Triulzi MO (see Ascah et al). 1989;117:402-11
Trotta F (see Casolo et al). 1989;117:468-72 (Brief comm.)
Tsai R-C (see Hung et al). 1989;117:381-5
Tseng Y-Z (see Lo et al). 1989;117:959-62 (Brief comm.)
Tsukamoto M (see Tomaru et al). 1989;117:275-81
Tsutamoto T, Bito K, Kinoshita M. Plasma atrial natriuretic polypeptide as an index of left ventricular end-diastolic pressure in patients with chronic left-sided heart failure. 1989;117:599-606
Tunick PA, Slater W, Kronzon I. The hemodynamics of left ventricular pseudoaneurysms: color Doppler echocardiographic study. 1989;117:1161-5 (Brief comm.)
Tuominen MO (see Ikäheimo et al). 1989;117:837-41
Tuzcu EM, Simpfendorfer C, Dorosti K, Franco I, Hollman J, Badhwar K, Whitlow P. Changing patterns in percutaneous transluminal coronary angioplasty. 1989;117:1374-7 (Prog. cardiol.)
- U**
- Uchida Y. Percutaneous coronary angiography by means of a fiberoptic with a steerable guide wire. 1989;117:1153-5 (Brief comm.)
—, Hasegawa K, Kawamura K, Shibuya I. Angioscopic observation of the coronary luminal changes induced by percutaneous transluminal coronary angioplasty. 1989;117:769-76 (see Tomaru et al). 1989;117:275-81
Uematsu M (see Masuyama et al). 1989;117:133-9
Ueyama M (see Nishimura et al). 1989;117:100-5
Underwood SR (see Bogen et al). 1989;117:1214-22
Unoki T, Nakagawa S, Koiwaya Y, Tanaka K. Extraluminal contrast pooling on coronary angiography as an expression of ruptured atheromatous plaque. 1989;117:1159-61 (Brief comm.)
— (see Yoshino et al). 1989;117:1316-9
- V**
- van den Brand M (see Kamp et al). 1989;117:991-6
Vandormael MG (see Deligonul et al). 1989;117:509-14
— (see Deligonul et al). 1989;117:997-1002
— (see Labovitz et al). 1989;117:1003-8
van Gilst WH (see van Wijk et al). 1989;117:365-9
van Loenhout TT (see Tan et al). 1989;117:1406-7 (Letter)
Vannelli A, Fuller HD. An unusual artifactual cause of apparent atrial flutter. 1989;117:202-4 (Brief comm.)
Vanoli E, De Ferrari GM, Stramba-Badiale M, Farber JP, Schwartz PJ. Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction. 1989;117:348-57
van Ommen V (see Cheriex et al). 1989;117:1394-6 (Brief comm.)
Van Train K (see Kiat et al). 1989;117:1-11
Van Vleet JF (see Radovsky and Van Vleet). 1989;117:1288-98
van Wijk LM, Crijs HJ, van Gilst WH, Wesseling H, Lie KI. Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis. 1989;117:365-9
Varisco T (see Facchini et al). 1989;117:1258-64
Vasquez J (see Jamison et al). 1989;117:607-14
Vergara G (see Guarnerio et al). 1989;117:1241-52
Verheugt FWA, Küpper AJF, Sterkman LGW, Meijer A, Peels CH, Roos JP. Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences. 1989;117:1018-22
Vermeir W (see Rogiers et al). 1989;117:1278-83
Vesely DL (see Ngo et al). 1989;117:385-90
Vetrovec GW (see Alpert et al). 1989;117:185-6 (Brief comm.)
Virmani R (see Latham et al). 1989;117:876-82
— (see Robinowitz et al). 1989;117:1398-9 (Letter reply)
Viskin S, Belhassen B. Spontaneous reversion of VF. 1989;117:1401 (Letter)
Vlay SC. Defibrillation threshold testing: Necessary but evil? 1989;117:499-504 (Editorial)
—, Chernilans J, Lawson WE, Dervan JP. Restenosis after angioplasty: don't rely on the exercise test. 1989;117:980-6 (Editorial)
— (see Dervan and Vlay). 1989;117:971-3 (Brief comm.)
— (see Frichione et al). 1989;117:1411-4 (Editorial)
Volz M (see Mitrovic et al). 1989;117:106-11
von Dohlen TW (see Gross et al). 1989;117:953-7 (Brief comm.)
Vran F (see Carretta et al). 1989;117:229-35 (Symposium)
Vyssoulis GP (see Michaelides et al). 1989;117:1035-41
- W**
- Waerber B (see Nussberger et al). 1989;117:717-22 (Symposium)
Wagner GS, Hackel DB. QRS scoring and anterior and inferior MI size. 1989;117:1405-6 (Letter)
Waller BF (see Barry et al). 1989;117:332-41
— (see Bourdillon et al). 1989;117:492-5 (Brief comm.)
Walter PF (see Smith et al). 1989;117:475-9 (Brief comm.)
Wappel M, Zalewski A, Savage M, Hessen S, Goldberg S, Maroko PR. Myocardial salvage after regional beta-adrenergic blockade. 1989;117:37-42
Wartier DC (see Al-Wathiqui et al). 1989;117:791-8
Watson DD (see Reed et al). 1989;117:60-71
Watts LE (see Downes et al). 1989;117:1106-12
Webb JG, Aldridge HE, Fulop J, Haq A. Aortocoronary saphenous vein graft spasm inducing ventricular fibrillation. 1989;117:485-6 (Brief comm.)
Weber L (see Jamison et al). 1989;117:607-14
Webster MWI, Sharpe DN. Exercise testing in angina pectoris: the importance of protocol design in clinical trials. 1989;117:505-8 (Editorial)
Weinrich MC (see Keil et al). 1989;117:1022-9
Weiss JN (see Stevenson et al). 1989;117:452-67 (Prog. cardiol.)
Wellens HJJ (see Cheriex et al). 1989;117:1394-6 (Brief comm.)
— (see de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)
Wen Y-m (see Dae et al). 1989;117:861-9
Werner CA (see Hustead et al). 1989;117:1383-5 (Brief comm.)
Wesseling H (see van Wijk et al). 1989;117:365-9
Wexman M (see Geschwind et al). 1989;117:1147-52 (Prog. cardiol.)
Weyman AE (see Ascah et al). 1989;117:402-11
— (see Choong et al). 1989;117:636-42
— (see Choong et al). 1989;117:819-29
Weyman J (see Choong et al). 1989;117:636-42
Whalen JJ. Definition of the effective dose of the converting-enzyme inhibitor benazepril. 1989;117:728-34 (Symposium)
Wharton JM (see Wiseman et al). 1989;117:1381-3 (Brief comm.)
White RD (see Pfugfelder et al). 1989;117:1113-9
White WB, Schulman P, Karimeddini MF, Smith V-E. Regression of left ventricular mass is accompanied by improvement in rapid left ventricular filling following antihypertensive therapy with metoprolol. 1989;117:145-50
Whitlow P (see Tuzcu et al). 1989;117:1374-7 (Prog. cardiol.)
Widerhorn J (see Jamison et al). 1989;117:607-14
Wiener I (see Stevenson et al). 1989;117:452-67 (Prog. cardiol.)
Wiens RD (see Kennedy and Wiens). 1989;117:164-76 (Prog. cardiol.)
Wilentz J (see Ellis et al). 1989;117:777-82
Williams AE (see Freeman et al). 1989;117:306-14
Williams GA (see Wittry et al). 1989;117:191-4 (Brief comm.)

- Willich SN (see Pohjola-Sintonen et al). 1989;117:809-18
— (see Tofler et al). 1989;117:86-92
- Winkle RA, Mead RH, Ruder MA, Gaudiani V, Buch WS, Pless B, Sweeney M, Schmidt P. Improved low energy defibrillation efficacy in man with the use of a biphasic truncated exponential waveform. 1989;117:122-7
- Winters CJ (see Ngo et al). 1989;117:385-90
- Wiseman A, Ohman EM, Wharton JM. Transient reversal of bifascicular block during acute myocardial infarction with reperfusion therapy: a word of caution. 1989;117:1381-3 (Brief comm.)
- Wittry MD, Zimmerman TJ, Janosik DL, Williams GA. Postpartum myocardial infarction in a patient with intermittent ventricular preexcitation. 1989;117:191-4 (Brief comm.)
- Wolff PG, Kühl U, Schultheiss H-P. Laminin distribution and autoantibodies to laminin in dilated cardiomyopathy and myocarditis. 1989;117:1303-9
- Wolpers HG (see Mügge et al). 1989;117:474-5 (Brief comm.)
- Woolf PK (see Stewart et al). 1989;117:140-4
- Wozniak P (see de Marchena et al). 1989;117:1173-4 (Brief comm.)
- Wray RB (see Orme et al). 1989;117:11-7
— (see Orme et al). 1989;117:680-3 (Prog. cardiol.)
- Wu D (see Yeh et al). 1989;117:1041-9
- Wu J-R, Huang T-Y, Chen Y-F, Lin Y-T, Roan H-R. Aortico-left ventricular tunnel: two-dimensional echocardiographic and angiographic features. 1989;117:697-9 (Brief comm.)
- Wu T-L (see Lo et al). 1989;117:959-62 (Brief comm.)
- Wyeth RP (see Ngo et al). 1989;117:385-90
- Wynder EL, Harris RE, Haley NJ. Population screening for plasma cholesterol: community-based results from Connecticut. 1989;117:649-56

Y

- Yabuta K (see Ino et al). 1989;117:1400-1 (Letter)
- Yamaji T (see Hung et al). 1989;117:381-5

- Yamakado T, Kecheng X, Masuda T, Nakano T, Takezawa H. Disappearance of coronary collateral vessels as a mechanism of vasospastic angina. 1989;117:1379-81 (Brief comm.)
- Yang SS, Goldberg H. Doppler-estimated mitral valve area. 1989;117:1403-4 (Letter)
- Yau KK (see Lo et al). 1989;117:1157-9 (Brief comm.)
- Yeh S-J, Lin F-C, Wu D. The mechanisms of exercise provocation of supraventricular tachycardia. 1989;117:1041-9
- Yock P (see Bouchard et al). 1989;117:1099-105
- Yoon GY (see Sharif et al). 1989;117:1333-6
- Yoshida S (see Fujiki et al). 1989;117:699-701 (Brief comm.)
- Yoshino F, Sakuma N, Date T, Unoki T, Fukagawa K, Miyamoto T, Matsuda Y. Diurnal change of plasma atrial natriuretic peptide concentrations in patients with congestive heart failure. 1989;117:1316-9
- Younes M (see Long et al). 1989;117:1133-9
- Young JB (see Ostojic et al). 1989;117:590-8

Z

- Zajtczuk R (see Shawl et al). 1989;117:537-42
- Zelewski A (see Wappel et al). 1989;117:37-42
- Zanchetti A (see Giannattasio et al). 1989;117:740-5 (Symposium)
- Zander M (see Lambert et al). 1989;117:615-22
- Zarco P (see Alfonso et al). 1989;117:695-7 (Brief comm.)
- Zardini P (see Latini et al). 1989;117:497-8 (Brief comm.)
- Zatuchni J. Left atrial thrombus. 1989;117:1405 (Letter)
- Ziam S (see Dangman et al). 1989;117:1271-7
- Zimmerman TJ (see Wittry et al). 1989;117:191-4 (Brief comm.)
- Zipes DP (see Krause et al). 1989;117:550-61
— (see Miles et al). 1989;117:112-21
- Zniber L (see Chaara et al). 1989;117:684-5 (Brief comm.)
- Zola B (see Schreiber et al). 1989;117:435-43 (Curriculum cardiol.)

Subject index*

A

Abnormalities; see Heart defects, congenital

Abscess

Detection of aortic valve ring abscess by intraoperative epicardial two-dimensional echocardiography (Tanaka et al). 1989;117:692-5 (Brief comm.)

Acquired immunodeficiency syndrome

Acquired immunodeficiency syndrome and heart disease: the present and the future (Coplan and Bruno). 1989;117:1175-7 (Editorial)

Symptomatic cardiac dysfunction in children with human immunodeficiency virus infection (Stewart et al). 1989; 117:14-24

Action potentials

Repolarization interactions between cardiac segments of varying action potential duration (Duo et al). 1989;117:854-61

Adaptation, psychological

Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal (Fricchione et al). 1989;117:1411-4 (Editorial)

Adrenergic alpha receptor blockers

The effects of terazosin and methyldothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7

Adrenergic beta receptor agonists

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)

Adrenergic beta receptor blockers

Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs (Mohri et al). 1989;117:43-52

The effect of beta blockade on single photon emission computed tomographic (SPECT) thallium-201 images in patients with coronary disease (Narahara et al). 1989;117:1030-5

Myocardial salvage after regional beta-adrenergic blockade (Wappel et al). 1989;117:37-42

Recent studies on the effects of beta blockers on blood lipid levels (Roberts). 1989;117:709-14 (Editorial)

Adrenergic receptors; see Receptors, adrenergic

Adrenoceptors; see Receptors, adrenergic

Aged

Angiotensin-converting enzyme inhibitors in the elderly (Reid et al). 1989;117:751-5 (Symposium)

The clinical description of angina pectoris in the elderly (Mukerji et al). 1989;117:705 (Brief comm.)

The clinical performance of nifedipine in elderly hypertensive patients with concomitant diseases (Leonetti). 1989;117:266-9 (Symposium)

Effects of nifedipine on blood pressure and renal function in elderly hypertensive patients with renal dysfunction (Saruta). 1989;117:243-9 (Symposium)

Nifedipine in elderly patients with hypertension: a review of experience in France (Forette et al). 1989;117:256-61 (Symposium)

Nifedipine in the elderly hypertensive: a review of experience in the United Kingdom (Littler). 1989;117:262-5 (Symposium)

Nifedipine monotherapy in ambulatory elderly patients with hypertension (Krakoff). 1989;117:250-5 (Symposium)

The potential use of nifedipine in cerebrovascular disease (Flamm). 1989;117:236-42 (Symposium)

Regional hemodynamic effects of slow-release nifedipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

The significance of increased left ventricular outflow tract velocities in the elderly measured by continuous wave Doppler (Agatston et al). 1989;117:1320-6

Aged—Cont'd

Symposium on hypertension in the elderly: focus on nifedipine—General group discussion (Sever). 1989;117:270-2 (Symposium)

Symposium on hypertension in the elderly: focus on nifedipine—Introduction (Sever). 1989;117:228 (Symposium)

Symposium on hypertension in the elderly: focus on nifedipine—Summary (Sever). 1989;117:273 (Symposium)

AIDS; see Acquired immunodeficiency syndrome

Anemia, hemolytic

Severe hemolytic anemia following mitral valve repair (Mok et al). 1989;117:1171-3 (Brief comm.)

Anesthesia

Local anesthetic and negative chronotropic effects of diltiazem on canine cardiac Purkinje fibers (Dangman et al). 1989; 117:1271-7

Aneurysm; see also Aortic aneurysm

Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm (Alfonso et al). 1989;117:695-7 (Brief comm.)

The hemodynamics of left ventricular pseudoaneurysm: color Doppler echocardiographic study (Tunick et al). 1989; 117:1161-5 (Brief comm.)

Pseudoaneurysm formation with fistulous communication to the left atrium after surgical interruption of an accessory atrioventricular pathway (Cherix et al). 1989;117:1394-6 (Brief comm.)

Angina, unstable

Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery (de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)

Role of resting thallium-201 perfusion in predicting coronary anatomy, left ventricular wall motion, and hospital outcome in unstable angina pectoris (Freeman et al). 1989;117:306-14

Short-, medium-, and long-term follow-up after percutaneous transluminal coronary angioplasty for stable and unstable angina pectoris (Kamp et al). 1989;117:991-6

Angina pectoris

Angina pectoris with encainide in dilated cardiomyopathy (Barron and Billhardt). 1989;117:701-2 (Brief comm.)

Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8

The clinical description of angina pectoris in the elderly (Mukerji et al). 1989;117:705 (Brief comm.)

Disappearance of coronary collateral vessels as a mechanism of vasospastic angina (Yamakado et al). 1989;117:1379-81 (Brief comm.)

Exercise testing in angina pectoris: the importance of protocol design in clinical trials (Webster and Sharpe). 1989;117:505-8 (Editorial)

Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis (Matsuda et al). 1989;117:1014-7

Short-, medium-, and long-term follow-up after percutaneous transluminal coronary angioplasty for stable and unstable angina pectoris (Kamp et al). 1989;117:991-6

Angina pectoris, drug therapy

Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina (Loaldi et al). 1989;117:315-22

Angina pectoris, surgery

The clinical efficacy and scintigraphic evaluation of post-coronary bypass patients undergoing percutaneous transluminal coronary angioplasty for recurrent angina pectoris (Reed et al). 1989;117:60-71

Angina pectoris, variant

Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina (Loaldi et al). 1989;117:315-22

Time-related decrease in sensitivity to ergonovine in patients with variant angina (Previtali et al). 1989;117:92-9

*January, pp. 1-274; February, pp. 275-508; March, pp. 509-768; April, pp. 769-990; May, pp. 991-1188; June, pp. 1189-1448.

Angiocardiography

Aortico-left ventricular tunnel: two-dimensional echocardiographic and angiographic features (Wu et al). 1989;117:697-9 (Brief comm.)

Angiography

Analysis of the early rise in aortic transvalvular gradient after aortic valvuloplasty (Davidson et al). 1989;117:411-7

Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery (de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)

Angiographic demonstration of plaque fissure associated with acute coronary occlusion (Alpert et al). 1989;117:185-6 (Brief comm.)

The dynamics of progression of coronary atherosclerosis studied in 168 medically treated patients who underwent coronary arteriography three times (Bruschke et al). 1989;117:296-305

Extraluminal contrast pooling on coronary angiography as an expression of ruptured atheromatous plaque (Unoki et al). 1989;117:1159-61 (Brief comm.)

Angiography, radionuclide; see Radionuclide angiography**Angiokeratoma corporis diffusum**

Myocardial tissue characterization by magnetic resonance imaging in Fabry's disease (Matsui et al). 1989;117:472-4 (Brief comm.)

Angioplasty, transluminal

Angioscopic observation of the coronary luminal changes induced by percutaneous transluminal coronary angioplasty (Uchida et al). 1989;117:769-76

Changing patterns in percutaneous transluminal coronary angioplasty (Tuzcu et al). 1989;117:1374-7 (Prog. cardiol.)

The clinical efficacy and scintigraphic evaluation of post-coronary bypass patients undergoing percutaneous transluminal coronary angioplasty for recurrent angina pectoris (Reed et al). 1989;117:60-71

Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al). 1989;117:1203-9

Effect of 18- to 24-hour heparin administration for prevention of restenosis after uncomplicated coronary angioplasty (Ellis et al). 1989;117:777-82

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

The effects of successful PTCA on left ventricular function: assessment by exercise echocardiography (Labovitz et al). 1989;117:1003-8

Is the residual translesional pressure gradient useful to predict regional myocardial perfusion after percutaneous transluminal coronary angioplasty? (MacIsaac et al). 1989;117:783-90

Percutaneous pulsed laser-assisted balloon angioplasty guided by spectroscopy (Geschwind et al). 1989;117:1147-52 (Prog. cardiol.)

Plasma levels of atrial natriuretic peptide during myocardial ischemia induced by percutaneous transluminal coronary angioplasty or dynamic exercise (Ikäheimo et al). 1989;117:837-41

Prognostic value of early exercise stress testing after successful coronary angioplasty: importance of the degree of revascularization (Deligonul et al). 1989;117:509-14

Repeat coronary angioplasty for restenosis: results and predictors of follow-up clinical events (Deligonul et al). 1989;117:997-1002

Restenosis after angioplasty: don't rely on the exercise test (Vlay et al). 1989;117:980-6 (Editorial)

Short-, medium-, and long-term follow-up after percutaneous transluminal coronary angioplasty for stable and unstable angina pectoris (Kamp et al). 1989;117:991-6

Transvenous antegrade balloon angioplasty for recoarctation of the aorta in an infant (Lo et al). 1989;117:1157-9 (Brief comm.)

Which aortic coarctations should we balloon-dilate? (Rao). 1989;117:987-9 (Editorial)

Angioscopy; see Microscopy**Angiotensin-converting enzyme inhibitors**

Angiotensin-converting enzyme inhibitors in the elderly (Reid et al). 1989;117:751-5 (Symposium)

Definition of the effective dose of the converting-enzyme inhibitor benazepril (Whalen). 1989;117:728-34 (Symposium)

Angiotensin-converting enzyme inhibitors—Cont'd

Double-blind crossover versus parallel groups in hypertension (Sever et al). 1989;117:735-9 (Symposium)

Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans (Giannattasio et al). 1989;117:740-5 (Symposium)

Need for plasma angiotensin measurements to investigate converting-enzyme inhibition in humans (Nussberger et al). 1989;117:717-22 (Symposium)

Pharmacokinetics of a new angiotensin-converting enzyme inhibitor, benazepril hydrochloride, in special populations (Kaiser et al). 1989;117:746-51 (Symposium)

Symposium on modern methods of investigating converting enzyme inhibition: Closing remarks (Michel et al). 1989;117:768 (Symposium)

Symposium on modern methods of investigating converting enzyme inhibition: Introduction: aims of the symposium (Ménard). 1989;117:715-6 (Symposium)

Angiotensins

Need for plasma angiotensin measurements to investigate converting-enzyme inhibition in humans (Nussberger et al). 1989;117:717-22 (Symposium)

Animals, laboratory

Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs (Mohri et al). 1989;117:43-52

Calculation of transmural flow by Doppler echocardiography: a comparison of methods in a canine model (Asch et al). 1989;117:402-11

Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction (Vanoli et al). 1989;117:348-57

Catheter ablation of the ventricular septum with radiofrequency energy (Ring et al). 1989;117:1233-40

Controlled versus hyperemic flow during reperfusion of jeopardized ischemic myocardium (Peng et al). 1989;117:515-22

The defibrillation threshold: How many measurements are enough? (Fujimura et al). 1989;117:977-9 (Brief comm.)

Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment (Rezkalala et al). 1989;117:391-5

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models (O'Connor et al). 1989;117:848-53

Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs (Radovsky and Van Vleet). 1989;117:1288-98

Electrophysiologic alterations produced by hypoxia in the canine heart (Krause et al). 1989;117:550-61

Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion (Devries et al). 1989;117:31-6

Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries (DeBoer and Folts). 1989;117:973-5 (Brief comm.)

Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol (Al-Wathiqui et al). 1989;117:791-8

Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorge et al). 1989;117:523-32

Local anesthetic and negative chronotropic effects of diltiazem on canine cardiac Purkinje fibers (Dangman et al). 1989;117:1271-7

Myocardial salvage after regional beta-adrenergic blockade (Wappel et al). 1989;117:37-42

Prohormone atrial natriuretic peptides 1-30, 31-67, and 99-126 increase in proportion to right ventricular pacing rate (Ngo et al). 1989;117:385-90

Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Animals, laboratory—Cont'd

Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9

Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33

Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle (Choong et al). 1989;117:819-29

Repolarization interactions between cardiac segments of varying action potential duration (Duo et al). 1989;117:854-61

Anoxia

Electrophysiologic alterations produced by hypoxia in the canine heart (Krause et al). 1989;117:550-61

Anterior chamber

ECG left anterior fascicular block reveals diverse patterns on scintigraphic phase analysis (Dae et al). 1989;117:861-9

Anti-arrhythmia agents

Angina pectoris with encainide in dilated cardiomyopathy (Barron and Billhardt). 1989;117:701-2 (Brief comm.)

Efficacy, safety, and tolerance of d-sotalol in patients with refractory supraventricular tachyarrhythmias (Sahar et al). 1989;117:562-8

Efficacy and safety of flecainide in low-risk patients with chronic ventricular arrhythmias: a two-year follow-up (Facchini et al). 1989;117:1258-64

Encainide and flecainide: Are they interchangeable? (Saini et al). 1989;117:1253-8

Proarrhythmia related to a kinetic and dynamic interaction of mexiletine and theophylline (Kessler et al). 1989;117:964-6 (Brief comm.)

Antibodies, monoclonal

Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment (Rezkalla et al). 1989;117:391-5

Antihypertensive agents

Angiotensin-converting enzyme inhibitors in the elderly (Reid et al). 1989;117:751-5 (Symposium)

Definition of the effective dose of the converting-enzyme inhibitor benazepril (Whalen). 1989;117:728-34 (Symposium)

Double-blind crossover versus parallel groups in hypertension (Sever et al). 1989;117:735-9 (Symposium)

The effects of terazosin and methyclothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7

Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans (Giannattasio et al). 1989;117:740-5 (Symposium)

New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)

Pharmacokinetics of a new angiotensin-converting enzyme inhibitor, benazepril hydrochloride, in special populations (Kaiser et al). 1989;117:746-51 (Symposium)

Anxiety

Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal (Fricchione et al). 1989;117:1411-4 (Editorial)

Aorta

The aortic root in subaortic stenosis (Habbal and Suliman). 1989;117:1127-32

Aortico-left ventricular tunnel: two-dimensional echocardiographic and angiographic features (Wu et al). 1989;117:697-9 (Brief comm.)

Quantitation of antegrade and retrograde blood flow in the human aorta by magnetic resonance velocity mapping (Bogren et al). 1989;117:1214-22

Valvular prolapse and great vessel dilatation in multiple endocrine neoplasia type 2B (Dulaney and Arvan). 1989;117:198-201 (Brief comm.)

Aorta, thoracic

In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia (Johnson et al). 1989;117:690-2 (Brief comm.)

Aortic aneurysm

Interruption of aortic regurgitation by the intimal flap of an aortic dissection: Doppler echocardiographic observations (Nakatani et al). 1989;117:486-9 (Brief comm.)

Aortic coarctation

Blood pressure and cardiac output during exercise: a longitudinal study of children undergoing repair of coarctation (Murphy et al). 1989;117:1327-32

Magnetic resonance imaging of vascular conduits in coarctation of the aorta (Pucillo et al). 1989;117:482-5 (Brief comm.)

Transvenous antegrade balloon angioplasty for recoarctation of the aorta in an infant (Lo et al). 1989;117:1157-9 (Brief comm.)

Which aortic coarctations should we balloon-dilate? (Rao). 1989;117:987-9 (Editorial)

Aortic dissection; see Aortic aneurysm

Aortic incompetence; see Aortic valve insufficiency

Aortic regurgitation; see Aortic valve insufficiency

Aortic subvalvular stenosis

The aortic root in subaortic stenosis (Habbal and Suliman). 1989;117:1127-32

Balloon dilation in discrete subaortic stenosis (Biancanello) (Letter); (Arora) (Reply). 1989;117:1397

Cardiac hydatid cyst with clinical features resembling subaortic stenosis (Russo et al). 1989;117:1385-7 (Brief comm.)

Improved visualization of discrete subvalvular aortic stenosis by transesophageal color-coded Doppler echocardiography (Mügge et al). 1989;117:474-5 (Brief comm.)

Aortic valve; see also Aortic valve insufficiency; Aortic valve prolapse; Aortic valve stenosis

Analysis of the early rise in aortic transvalvular gradient after aortic valvuloplasty (Davidson et al). 1989;117:411-7

Detection of aortic valve ring abscess by intraoperative epicardial two-dimensional echocardiography (Tanaka et al). 1989;117:692-5 (Brief comm.)

Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis (Aragam et al). 1989;117:1392-4 (Brief comm.)

"Pseudo-critical" aortic stenosis during pregnancy: role for Doppler assessment of aortic valve area (Hustead et al). 1989;117:1383-5 (Brief comm.)

Aortic valve insufficiency

Diastolic mitral regurgitation in acute but not chronic aortic regurgitation: implications regarding the mechanism of mitral closure (Downes et al). 1989;117:1106-12

Interruption of aortic regurgitation by the intimal flap of an aortic dissection: Doppler echocardiographic observations (Nakatani et al). 1989;117:486-9 (Brief comm.)

Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al). 1989;117:536-42

Semiquantitative evaluation of aortic regurgitation by Doppler echocardiography: effects of associated mitral stenosis (Masuyama et al). 1989;117:133-9

Value of color Doppler estimation of regurgitant volume in patients with chronic aortic insufficiency (Bouchard et al). 1989;117:1099-105

Aortic valve prolapse

Valvular prolapse and great vessel dilatation in multiple endocrine neoplasia type 2B (Dulaney and Arvan). 1989;117:198-201 (Brief comm.)

Aortic valve stenosis

Balloon dilation in discrete subaortic stenosis (Biancanello) (Letter); (Arora) (Reply). 1989;117:1397

Comparison of three techniques for percutaneous balloon aortic valvuloplasty of aortic stenosis in adults (Orme et al). 1989;117:11-7

Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function (Ferguson et al). 1989;117:18-24

Hypereosinophilic syndrome resulting in aortic and mitral stenosis: a case requiring double valve replacement (Smith et al). 1989;117:475-9 (Brief comm.)

Left ventricular myxoma simulating aortic stenosis (Rosenzweig et al). 1989;117:962-3 (Brief comm.)

Pathology of aortic valvuloplasty: findings after postmortem successful and failed dilatations (Berdoft et al). 1989;117:688-90 (Brief comm.)

"Pseudo-critical" aortic stenosis during pregnancy: role for Doppler assessment of aortic valve area (Hustead et al). 1989;117:1383-5 (Brief comm.)

Aortocoronary bypass

The clinical efficacy and scintigraphic evaluation of post-coronary bypass patients undergoing percutaneous transluminal coronary angioplasty for recurrent angina pectoris (Reed et al). 1989;117:60-71

Comparison of the long-term, postsurgical survival of women and men in the Coronary Artery Surgery Study (CASS) (Eaker et al). 1989;117:71-81

Myocardial ischemia in patients awaiting coronary artery bypass grafting (Knight et al). 1989;117:1189-95

Arrhythmia, drug therapy; see also Anti-arrhythmia agents

The effect of drugs and lead maturation on atrial electrograms during sinus rhythm and atrial fibrillation (Bump et al). 1989;117:577-84

Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure (Rogiers et al). 1989;117:1278-83

Efficacy, safety, and tolerance of d-sotalol in patients with refractory supraventricular tachyarrhythmias (Sahar et al). 1989;117:562-8

Efficacy and safety of flecainide in low-risk patients with chronic ventricular arrhythmias: a two-year follow-up (Facchini et al). 1989;117:1258-64

The electrophysiologic effects of enoximone in patients with preexisting ventricular tachyarrhythmias (Miles et al). 1989;117:112-21

A prospective comparison of programmed ventricular stimulation with triple extrastimuli versus single and double extrastimuli during infusion of isoproterenol (Baerman et al). 1989;117:342-7

Arrhythmia, etiology

Ambulatory sudden cardiac death: mechanisms of production of fatal arrhythmia on the basis of data from 157 cases (Bayes de Luna et al). 1989;117:151-9 (Curriculum cardiol.)

Ebstein's anomaly with ventricular tachycardia: evidence for the arrhythmogenic role of the atrialized ventricle (Lo et al). 1989;117:959-62 (Brief comm.)

Induction of ventricular arrhythmia by high and low osmolarity ionic and nonionic contrast media (Pinto et al). 1989;117:1283-7

Proarrhythmia related to a kinetic and dynamic interaction of mexiletine and theophylline (Kessler et al). 1989;117:964-6 (Brief comm.)

Slow conduction in the infarct scar: relevance to the occurrence, detection, and ablation of ventricular reentry circuits resulting from myocardial infarction (Stevenson et al). 1989;117:452-67 (Prog. cardiol.)

Arrhythmia, mortality

Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction (Vanoli et al). 1989;117:348-57

Arrhythmia, physiopathology

Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33

Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy (Batchelor et al). 1989;117:1264-70

Arterial occlusive diseases

Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

Arteries

Age at death in the hypoplastic left heart syndrome: multivariate analysis and importance of the coronary arteries (Lloyd and Marvin). 1989;117:1337-43

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

Arterio-arterial fistula

Coronary artery-to-pulmonary artery fistula: a potential new mechanism (Dervan and Vlay). 1989;117:971-3 (Brief comm.)

Arteriography; see Angiography**Arteriovenous fistula**

Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis (Aragam et al). 1989;117:1392-4 (Brief comm.)

Arteriovenous fistula—Cont'd

Pseudoaneurysm formation with fistulous communication to the left atrium after surgical interruption of an accessory atrioventricular pathway (Cherix et al). 1989;117:1394-6 (Brief comm.)

Atherosclerosis, coronary; see Coronary arteriosclerosis**Atrial fibrillation**

The effect of drugs and lead maturation on atrial electrograms during sinus rhythm and atrial fibrillation (Bump et al). 1989;117:577-84

Thyrotoxicosis, atrial fibrillation, and embolism, revisited (Presti and Hart). 1989;117:976-7 (Brief comm.)

Atrial flutter

Successful pregnancy following modified Fontan procedure in a patient with tricuspid atresia and recurrent atrial flutter (Fyfe et al). 1989;117:1387-8 (Brief comm.)

Transesophageal atrial pacing: a first-choice technique in atrial flutter therapy (Guarnerio et al). 1989;117:1241-52

An unusual artifactual cause of apparent atrial flutter (Vannelli and Fuller). 1989;117:202-4 (Brief comm.)

Atrial natriuretic peptides; see Natriuretic peptides, atrial**Atrial septal aneurysm; see Aneurysm****Atrioventricular block; see Heart block****Atrioventricular node**

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

Atrium; see Heart atrium**Autoantibodies**

Laminin distribution and autoantibodies to laminin in dilated cardiomyopathy and myocarditis (Wolff et al). 1989;117:1303-9

Automatic internal cardioverter defibrillator; see Electric countershock**Autonomic nervous system disease**

Plasma norepinephrine in Chagas' cardioneuromyopathy: a marker of progressive dysautonomia (Iosa et al). 1989;117:882-7

Autopsy

Pathology of aortic valvuloplasty: findings after postmortem successful and failed dilatations (Berdoft et al). 1989;117:688-90 (Brief comm.)

Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy (Sharif et al). 1989;117:1333-6

B**Balloon angioplasty; see Angioplasty, transluminal****Balloon dilatation**

Analysis of the early rise in aortic transvalvular gradient after aortic valvuloplasty (Davidson et al). 1989;117:411-7

Balloon dilatation of a stenotic dura mater mitral bioprosthesis (Arie et al). 1989;117:201-2 (Brief comm.)

Balloon dilation in discrete subaortic stenosis (Biancaniello) (Letter); (Arora) (Reply). 1989;117:1397

Balloon mitral valvuloplasty via retrograde left atrial catheterization (Orme et al). 1989;117:680-3 (Prog. cardiol.)

Comparison of three techniques for percutaneous balloon aortic valvuloplasty of aortic stenosis in adults (Orme et al). 1989;117:11-7

Critical pulmonary valve stenosis in patients less than 1 year of age: treatment with percutaneous gradational balloon pulmonary valvuloplasty (Khan et al). 1989;117:1008-14

Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function (Ferguson et al). 1989;117:18-24

Echophonocardiography in patients undergoing percutaneous mitral balloon valvotomy (PMV): the learning curve of PMV (Brandi-Pifano et al). 1989;117:25-31

Endomyocardial trauma during balloon mitral valvuloplasty (Ramsdale and Schofield). 1989;117:685-7 (Brief comm.)

Interatrial septal thickening preventing percutaneous mitral valve balloon valvuloplasty (Sheikh et al). 1989;117:206-10 (Brief comm.)

Pathology of aortic valvuloplasty: findings after postmortem successful and failed dilatations (Berdoft et al). 1989;117:688-90 (Brief comm.)

Balloon dilatation—Cont'd

Percutaneous balloon valvuloplasty for tricuspid stenosis: hemodynamic and pathological findings (Bourdillon et al). 1989;117:492-5 (Brief comm.)

Percutaneous balloon valvuloplasty via the right internal jugular vein for valvular pulmonic stenosis with severe right ventricular failure (Chaara et al). 1989;117:684-5 (Brief comm.)

Rapid fall in elevated plasma atrial natriuretic peptide levels after successful catheter balloon valvuloplasty of mitral stenosis (Hung et al). 1989;117:381-5

Transverse balloon tear in valvuloplasty (Dev and Shrivastava). 1989;117:1397-8 (Letter)

Which aortic coarctations should we balloon-dilate? (Rao). 1989;117:987-9 (Editorial)

Balloon valvuloplasty; see Balloon dilatation

Baroreceptors; see Pressoreceptors

Batroxobin

Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

Benazepril

Definition of the effective dose of the converting-enzyme inhibitor benazepril (Whalen). 1989;117:728-34 (Symposium)

Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans (Giannattasio et al). 1989;117:740-5 (Symposium)

Pharmacokinetics of a new angiotensin-converting enzyme inhibitor, benazepril hydrochloride, in special populations (Kaiser et al). 1989;117:746-51 (Symposium)

Symposium on modern methods of investigating converting enzyme inhibition: Closing remarks (Michel et al). 1989;117:768 (Symposium)

Beta adrenergic receptors; see Receptors, adrenergic, beta

Beta blockers; see Adrenergic beta receptor blockers

Bioprostheses

Balloon dilatation of a stenotic dura mater mitral bioprosthesis (Arie et al). 1989;117:201-2 (Brief comm.)

Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation (Gross et al). 1989;117:953-7 (Brief comm.)

Björk-Shiley prosthesis

Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm (Alfonso et al). 1989;117:695-7 (Brief comm.)

Blood flow; see Regional blood flow

Blood flow velocity

Quantitation of antegrade and retrograde blood flow in the human aorta by magnetic resonance velocity mapping (Bogren et al). 1989;117:1214-22

The significance of increased left ventricular outflow tract velocities in the elderly measured by continuous wave Doppler (Agatston et al). 1989;117:1320-6

Blood platelets

Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries (DeBoer and Folts). 1989;117:973-5 (Brief comm.)

Blood pressure

Blood pressure and cardiac output during exercise: a longitudinal study of children undergoing repair of coarctation (Murphy et al). 1989;117:1327-32

Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure (Rogiers et al). 1989;117:1278-83

Blood pressure, high; see Hypertension

Blood pressure determination

Which is the most accurate method of measuring blood pressure? (Littler and Komsuoglu). 1989;117:723-8 (Symposium)

Blood sampling; see Blood specimen collection

Blood specimen collection

Clinical value of serum digoxin assays in outpatients: improvement by the standardization of blood sampling (Jogestrand et al). 1989;117:1076-83

BM-13505

Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Bookshelf

Bookshelf. 1989;117:274, 990

Brief communications

Brief communications. 1989;117:185-210, 468-98, 684-705, 952-79, 1153-74, 1378-96

Bundle-branch block

ECG diagnosis of MI in LBBB (Spodick) (Letter); (Hands and Rutherford) (Reply). 1989;117:1409

ECG left anterior fascicular block reveals diverse patterns on scintigraphic phase analysis (Dae et al). 1989;117:861-9

Prevalence of intraventricular block in the general population: the Framingham Study (Kreger et al). 1989;117:903-10 (Prog. cardiol.)

Transient reversal of bifascicular block during acute myocardial infarction with reperfusion therapy: a word of caution (Wiseman et al). 1989;117:1381-3 (Brief comm.)

C

Calcium channel blockers

Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al). 1989;117:569-76

Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5

Captopril

Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans (Giannattasio et al). 1989;117:740-5 (Symposium)

Peripheral hemodynamic effects of captopril in patients with congestive heart failure (Nishimura et al). 1989;117:100-5

Carbon monoxide

Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction (Vanoli et al). 1989;117:348-57

Cardiac arrest; see Heart arrest

Cardiac catheterization; see Heart catheterization

Cardiac output

Blood pressure and cardiac output during exercise: a longitudinal study of children undergoing repair of coarctation (Murphy et al). 1989;117:1327-32

Cardiac pacing, artificial

Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs (Radovsky and Van Vleet). 1989;117:1288-98

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

Prohormone atrial natriuretic peptides 1-30, 31-67, and 99-126 increase in proportion to right ventricular pacing rate (Ngo et al). 1989;117:385-90

A prospective comparison of programmed ventricular stimulation with triple extrastimuli versus single and double extrastimuli during infusion of isoproterenol (Baerman et al). 1989;117:342-7

Transesophageal atrial pacing: a first-choice technique in atrial flutter therapy (Guarnerio et al). 1989;117:1241-52

Cardiomyopathy, Chagas; see Chagas cardiomyopathy

Cardiomyopathy, congestive

Angina pectoris with encainide in dilated cardiomyopathy (Barron and Billhardt). 1989;117:701-2 (Brief comm.)

Laminin distribution and autoantibodies to laminin in dilated cardiomyopathy and myocarditis (Wolff et al). 1989;117:1303-9

Recently diagnosed idiopathic dilated cardiomyopathy: incidence of myocarditis and efficacy of prednisone therapy (Latham et al). 1989;117:876-82

Cardiomyopathy, dilated; see Cardiomyopathy, congestive

Cardiomyopathy, hypertrophic

Detection of apical hypertrophic cardiomyopathy by magnetic resonance imaging (Casolo et al). 1989;117:468-72 (Brief comm.)

Doppler color flow mapping studies of jet formation and spatial orientation in obstructive hypertrophic cardiomyopathy (Hoit et al). 1989;117:1119-26

Regression of left ventricular mass is accompanied by improvement in rapid left ventricular filling following antihypertensive therapy with metoprolol (White et al). 1989;117:145-50

Cardiovascular diseases

Lens changes and the incidence of cardiovascular events among persons with diabetes (Podgor et al). 1989;117:642-8

The noninvasive evaluation of syncope of suspected cardiovascular origin (Strasberg et al). 1989;117:160-3 (Curriculum cardi.)

Cardiovascular system physiology

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

Cardioversion; see Electric countershock**Carpentier ring**

Long-term follow-up after Carpentier tricuspid valvuloplasty (Lambertz et al). 1989;117:615-22

CASS; see Coronary Artery Surgery Study**Catalase**

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

Catecholamines

Catecholamine cardiotoxicity in pheochromocytoma (Ganguly et al). 1989;117:1399-400 (Letter)

Exercise-related changes in serum catecholamines and potassium: effect of sustained exercise above and below lactate threshold (Coplan et al). 1989;117:1070-5

Catheter ablation, electric; see Electrocoagulation**Cavernous hemangioma; see Hemangioma, cavernous****Cerebral artery disease**

The potential use of nicardipine in cerebrovascular disease (Flamm). 1989;117:236-42 (Symposium)

Cerebrovascular disorders

The potential use of nicardipine in cerebrovascular disease (Flamm). 1989;117:236-42 (Symposium)

Chagas cardiomyopathy

Plasma norepinephrine in Chagas' cardiomyopathy: a marker of progressive dysautonomia (Iosa et al). 1989;117:882-7

Chest x-ray; see Thorax, radiography**Chlorobenzenes**

Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Cholesterol

Population screening for plasma cholesterol: community-based results from Connecticut (Wynder et al). 1989;117:649-56

Cicatrix

Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle (Choong et al). 1989;117:819-29

Cineangiography

Pulsed Doppler echocardiographic determination of the time course of left ventricular filling: validation with cineangiography (Ferguson et al). 1989;117:127-32

Circadian rhythm

Diurnal change of plasma atrial natriuretic peptide concentrations in patients with congestive heart failure (Yoshino et al). 1989;117:1316-9

Clinical protocols

Exercise testing in angina pectoris: the importance of protocol design in clinical trials (Webster and Sharpe). 1989;117:505-8 (Editorial)

Clinical trials

Double-blind crossover versus parallel groups in hypertension (Sever et al). 1989;117:735-9 (Symposium)

Coarctation of aorta; see Aortic coarctation**Cocaine**

Cocaine-induced myocarditis (Jentzen) (Letter); (Robinowitz et al) (Reply). 1989;117:1398-9

Collateral circulation

Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs (Mohri et al). 1989;117:43-52

Coronary collateral circulation: clinical significance and influence on survival in patients with coronary artery occlusion (Hansen). 1989;117:290-5

Disappearance of coronary collateral vessels as a mechanism of vasospastic angina (Yamakado et al). 1989;117:1379-81 (Brief comm.)

Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorge et al). 1989;117:523-32

Congenital defects; see Heart defects, congenital**Congestive heart failure; see Heart failure, congestive****Contrast media**

Extraluminal contrast pooling on coronary angiography as an expression of ruptured atheromatous plaque (Unoki et al). 1989;117:1159-61 (Brief comm.)

Induction of ventricular arrhythmia by high and low osmolarity ionic and nonionic contrast media (Pinto et al). 1989;117:1283-7

Cor triatriatum

Mitral and pulmonary vein blood flow patterns in cor triatriatum (Mori and Dohi). 1989;117:1167-9 (Brief comm.)

Coronary arteriosclerosis

The dynamics of progression of coronary atherosclerosis studied in 168 medically treated patients who underwent coronary arteriography three times (Bruschke et al). 1989;117:296-305

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

Extraluminal contrast pooling on coronary angiography as an expression of ruptured atheromatous plaque (Unoki et al). 1989;117:1159-61 (Brief comm.)

Coronary artery bypass; see Aortocoronary bypass**Coronary artery disease; see Coronary disease****Coronary artery occlusion; see Coronary thrombosis****Coronary artery spasm; see Coronary vasospasm****Coronary Artery Surgery Study**

Comparison of the long-term, postsurgical survival of women and men in the Coronary Artery Surgery Study (CASS) (Eaker et al). 1989;117:71-81

Coronary atherosclerosis; see Coronary arteriosclerosis**Coronary disease**

Ambulatory (Holter) electrocardiography and myocardial ischemia (Kennedy and Wiens). 1989;117:164-76 (Prog. cardi.)

Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8

Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery (de Zwaan et al). 1989;117:657-65 (Curriculum cardi.)

Angiographic demonstration of plaque fissure associated with acute coronary occlusion (Alpert et al). 1989;117:185-6 (Brief comm.)

Angioscopic observation of the coronary luminal changes induced by percutaneous transluminal coronary angioplasty (Uchida et al). 1989;117:769-76

Asymptomatic left main coronary artery disease and silent myocardial ischemia (Shawl et al). 1989;117:537-42

Coronary artery-to-pulmonary artery fistula: a potential new mechanism (Dervan and Vlay). 1989;117:971-3 (Brief comm.)

Coronary thrombosis induced by coronary spasm without myocardial infarction (Chahine and Mallon). 1989;117:186-8 (Brief comm.)

Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)

Doppler assessment of left ventricular diastolic filling during brief coronary occlusion (de Bruyne et al). 1989;117:629-35

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardi.)

The iron paradigm of ischemic heart disease (Sullivan). 1989;117:1177-88 (Editorial)

Myocardial ischemia in patients awaiting coronary artery bypass grafting (Knight et al). 1989;117:1189-95

Plasma levels of atrial natriuretic peptide during myocardial ischemia induced by percutaneous transluminal coronary angioplasty or dynamic exercise (Ikäheimo et al). 1989;117:837-41

Predictors of sustained ventricular tachycardia inducibility in patients with nonsustained ventricular tachycardia and chronic coronary artery disease (Furukawa et al). 1989;117:1050-9

Risk factors and noncontraceptive estrogen use in women with and without coronary disease (McFarland et al). 1989;117:1209-14

Sudden death and silent myocardial ischemia (Sheps and Heiss). 1989;117:177-84 (Prog. cardi.)

Variceal transformation of the subendocardial microvasculature in regions of chronic myocardial ischemia (Hoyt and Hutchins). 1989;117:830-6

Coronary disease—Cont'd

Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy (Batchelor et al). 1989; 117:1264-70

Coronary disease, animal

Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs (Mohri et al). 1989;117:43-52

Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol (Al-Wathiqui et al). 1989;117:791-8

Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9

Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33

Coronary disease, drug therapy

Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina (Loaldi et al). 1989;117:315-22

Effect of 18- to 24-hour heparin administration for prevention of restenosis after uncomplicated coronary angioplasty (Ellis et al). 1989;117:777-82

Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5

Hemodynamic, antiischemic, and neurohumoral effects of enoximone in patients with coronary artery disease (Mitrovic et al). 1989;117:106-11

Coronary disease, infant

Color flow mapping in the diagnosis of coronary artery fistula in the neonate: benefits and limitations (Kimball et al). 1989;117:968-71 (Brief comm.)

Coronary disease, mortality

Comparison of the long-term, postsurgical survival of women and men in the Coronary Artery Surgery Study (CASS) (Eaker et al). 1989;117:71-81

Coronary collateral circulation: clinical significance and influence on survival in patients with coronary artery occlusion (Hansen). 1989;117:290-5

Coronary disease, radionuclide imaging

Comparison of technetium 99m methoxy isobutyl isonitrite and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods (Kiat et al). 1989;117:1-11

Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al). 1989;117:1203-9

The effect of beta blockade on single photon emission computed tomographic (SPECT) thallium-201 images in patients with coronary disease (Narahara et al). 1989;117:1030-5

Coronary disease, therapy

Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)

New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)

Coronary heart disease; see Coronary disease

Coronary thrombosis

Angiographic demonstration of plaque fissure associated with acute coronary occlusion (Alpert et al). 1989;117:185-6 (Brief comm.)

Coronary thrombosis induced by coronary spasm without myocardial infarction (Chahine and Mallon). 1989;117:186-8 (Brief comm.)

Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries (DeBoer and Folts). 1989;117:973-5 (Brief comm.)

Coronary thrombosis—Cont'd

Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis (Matsuda et al). 1989;117:1014-7

Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9

Coronary vasospasm; see also Angina pectoris

Coronary thrombosis induced by coronary spasm without myocardial infarction (Chahine and Mallon). 1989;117:186-8 (Brief comm.)

Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina (Loaldi et al). 1989;117:315-22

Coronary vessel anomalies

Age at death in the hypoplastic left heart syndrome: multivariate analysis and importance of the coronary arteries (Lloyd and Marvin). 1989;117:1337-43

Aortico-left ventricular tunnel: two-dimensional echocardiographic and angiographic features (Wu et al). 1989; 117:697-9 (Brief comm.)

Normal and anomalous coronary arteries: definitions and classification (Angelini). 1989;117:418-34 (Curriculum cardiol.)

Coronary vessels, anatomy

Role of resting thallium²⁰¹ perfusion in predicting coronary anatomy, left ventricular wall motion, and hospital outcome in unstable angina pectoris (Freeman et al). 1989;117:306-14

Variceal transformation of the subendocardial microvasculature in regions of chronic myocardial ischemia (Hoyt and Hutchins). 1989;117:830-6

Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy (Batchelor et al). 1989; 117:1264-70

Coronary vessels, drug effects

Dose- and time-related vasodilator response of conduit coronary arteries to intracoronary isosorbide dinitrate in human beings (Simonetti et al). 1989;117:323-31

Coronary vessels, pathology

Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery (de Zwaan et al). 1989;117:657-65 (Curriculum cardiol.)

Coronary artery-to-pulmonary artery fistula: a potential new mechanism (Dervan and Vlay). 1989;117:971-3 (Brief comm.)

Disappearance of coronary collateral vessels as a mechanism of vasospastic angina (Yamakado et al). 1989;117:1379-81 (Brief comm.)

Coronary vessels, physiology

Angioscopic observation of the coronary luminal changes induced by percutaneous transluminal coronary angioplasty (Uchida et al). 1989;117:769-76

Normal and anomalous coronary arteries: definitions and classification (Angelini). 1989;117:418-34 (Curriculum in cardiology.)

Correspondence; see Letters

Countershock; see Electric countershock

Coxsackievirus

Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment (Rezkalla et al). 1989;117:391-5

Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302

Creatine kinase

Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion (Devries et al). 1989;117:31-6

Curriculum in cardiology

Curriculum in cardiology. 1989;117:151-63, 418-43, 657-79, 892-902, 1140-6, 1344-73

D

Death

Age at death in the hypoplastic left heart syndrome: multivariate analysis and importance of the coronary arteries (Lloyd and Marvin). 1989;117:1337-43

Death, sudden

Ambulatory sudden cardiac death: mechanisms of production of fatal arrhythmia on the basis of data from 157 cases (Bayés de Luna et al). 1989;117:151-9 (Curriculum cardiol.)

Death, sudden—Cont'd

- Recurrent myocardial infarction and sudden death after sport (Ciampricotti and El Gamal). 1989;117:188-91 (Brief comm.)
Sudden death and silent myocardial ischemia (Sheps and Heiss). 1989;117:177-84 (Prog. cardiol.)

Defibrillation, electric; see Electric countershock**Dependency**

- Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal (Fricchione et al.). 1989;117:1411-4 (Editorial)

Dexamethasone

- Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs (Radovsky and Van Vleet). 1989;117:1288-98

Diabetic retinopathy

- Lens changes and the incidence of cardiovascular events among persons with diabetes (Podgor et al.). 1989;117:642-8

Diastole

- Diastolic mitral regurgitation in acute but not chronic aortic regurgitation: implications regarding the mechanism of mitral closure (Downes et al.). 1989;117:1106-12
Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5

Didyridamole

- Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al.). 1989;117:1203-9

Digoxin

- Clinical value of serum digoxin assays in outpatients: improvement by the standardization of blood sampling (Jogestrand et al.). 1989;117:1076-83

Dilated cardiomyopathy; see Cardiomyopathy, congestive**Diltiazem**

- Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al.). 1989;117:569-76
Local anesthetic and negative chronotropic effects of diltiazem on canine cardiac Purkinje fibers (Dangman et al.). 1989;117:1271-7

Dipyridamole

- Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)
Intravenous dipyridamole: body weight considerations and dosage requirements (Camp et al.). 1989;117:702-4 (Brief comm.)

Diurnal rhythm; see Circadian rhythm**Dopamine, analogue**

- Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoreceptors (dopexamine) in patients with heart failure (Jamison et al.). 1989;117:607-14

Dopamine receptors; see Receptors, dopamine**Dopexamine**

- Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoreceptors (dopexamine) in patients with heart failure (Jamison et al.). 1989;117:607-14

Doppler echocardiography; see Echocardiography, Doppler**Doppler velocimeters; see Flowmeters****Dysautonomia; see Autonomic nervous system disease****E****Ebstein's anomaly**

- Ebstein's anomaly with ventricular tachycardia: evidence for the arrhythmogenic role of the atrialized ventricle (Lo et al.). 1989;117:959-62 (Brief comm.)

ECG; see Electrocardiography**Echinococcosis**

- Cardiac hydatid cyst with clinical features resembling subaortic stenosis (Russo et al.). 1989;117:1385-7 (Brief comm.)

Echocardiography

- Aortic-left ventricular tunnel: two-dimensional echocardiographic and angiographic features (Wu et al.). 1989;117:697-9 (Brief comm.)

- Detection of aortic valve ring abscess by intraoperative epicardial two-dimensional echocardiography (Tanaka et al.). 1989;117:692-5 (Brief comm.)

- Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation (Gross et al.). 1989;117:953-7 (Brief comm.)

Echocardiography—Cont'd

- Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm (Alfonso et al.). 1989;117:695-7 (Brief comm.)

- Echophonocardiography in patients undergoing percutaneous mitral balloon valvotomy (PMV): the learning curve of PMV (Brandi-Pifano et al.). 1989;117:25-31

- The effects of successful PTCA on left ventricular function: assessment by exercise echocardiography (Labovitz et al.). 1989;117:1003-8

- Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al.). 1989;117:636-42

- Rare attachment of left atrial myxoma: two-dimensional echocardiographic evidence (Torrecilla et al.). 1989;117:1389-90 (Brief comm.)

- Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy (Sharif et al.). 1989;117:1333-6

Echocardiography, Doppler; see also Flowmeters

- Analysis of the early rise in aortic transvalvular gradient after aortic valvuloplasty (Davidson et al.). 1989;117:411-7

- Calculation of transmitral flow by Doppler echocardiography: a comparison of methods in a canine model (Asch et al.). 1989;117:402-11

- Color Doppler findings in ventricular septal dissection following myocardial infarction (Amico et al.). 1989;117:195-8 (Brief comm.)

- Color flow mapping in the diagnosis of coronary artery fistula in the neonate: benefits and limitations (Kimball et al.). 1989;117:968-71 (Brief comm.)

- Doppler assessment of left ventricular diastolic filling during brief coronary occlusion (de Bruyne et al.). 1989;117:629-35

- Doppler color flow mapping studies of jet formation and spatial orientation in obstructive hypertrophic cardiomyopathy (Hoit et al.). 1989;117:1119-26

- Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function (Ferguson et al.). 1989;117:18-24

- Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis (Aragam et al.). 1989;117:1392-4 (Brief comm.)

- Doppler-estimated mitral valve area (Yang and Goldberg) (Letter); (Posma et al.) (Letter); (Labovitz et al.) (Reply). 1989;117:1403-4

- Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5

- The hemodynamics of left ventricular pseudoaneurysm: color Doppler echocardiographic study (Tunick et al.). 1989;117:1161-5 (Brief comm.)

- Improved visualization of discrete subvalvular aortic stenosis by transesophageal color-coded Doppler echocardiography (Mügge et al.). 1989;117:474-5 (Brief comm.)

- Interruption of aortic regurgitation by the intimal flap of an aortic dissection: Doppler echocardiographic observations (Nakatani et al.). 1989;117:486-9 (Brief comm.)

- Pacemaker lead-induced tricuspid stenosis: diagnosis by Doppler echocardiography (Old et al.). 1989;117:1165-7 (Brief comm.)

- Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al.). 1989;117:636-42

- "Pseudo-critical" aortic stenosis during pregnancy: role for Doppler assessment of aortic valve area (Hustead et al.). 1989;117:1383-5 (Brief comm.)

- Pulsed Doppler echocardiographic determination of the time course of left ventricular filling: validation with cineangiography (Ferguson et al.). 1989;117:127-32

- Semiquantitative evaluation of aortic regurgitation by Doppler echocardiography: effects of associated mitral stenosis (Masuyama et al.). 1989;117:133-9

- The significance of increased left ventricular outflow tract velocities in the elderly measured by continuous wave Doppler (Agatston et al.). 1989;117:1320-6

- Value of color Doppler estimation of regurgitant volume in patients with chronic aortic insufficiency (Bouchard et al.). 1989;117:1099-105

Echocardiography, Doppler color; *see* **Echocardiography, Doppler**

Echocardiography, two-dimensional; *see* **Echocardiography**

Echophonocardiography; *see* **Phonocardiography**

Editorials. 1989;117:211-26, 499-508, 706-14, 980-9, 1175-88, 1411-4

EKG; *see* **Electrocardiography**

Elderly; *see* **Aged**

Electric countershock

The defibrillation threshold: How many measurements are enough? (Fujimura et al). 1989;117:977-9 (Brief comm.)

Defibrillation threshold testing: Necessary but evil? (Vlay). 1989;117:499-504 (Editorial)

The effect of an unsuccessful subthreshold shock on the energy requirement for the subsequent defibrillation (Murakawa et al). 1989;117:1065-9

Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al). 1989;117:569-76

Improved internal defibrillation efficacy with a biphasic waveform (Fain et al). 1989;117:358-64

Improved low energy defibrillation efficacy in man with the use of a biphasic truncated exponential waveform (Winkle et al). 1989;117:122-7

Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal (Fricchione et al). 1989;117:1411-4 (Editorial)

Electrocardiography

Ambulatory (Holter) electrocardiography and myocardial ischemia (Kennedy and Wiens). 1989;117:164-76 (Prog. cardi-ol.)

Angiographic and clinical characteristics of patients with unstable angina showing an ECG pattern indicating critical narrowing of the proximal LAD coronary artery (de Zwaan et al). 1989;117:657-65 (Curriculum cardi-ol.)

Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)

ECG diagnosis of MI in LBBB (Spodick) (Letter); (Hands and Rutherford) (Reply). 1989;117:1409

ECG left anterior fascicular block reveals diverse patterns on scintigraphic phase analysis (Dae et al). 1989;117:861-9

Effect of body position on the diagnostic accuracy of the electrocardiogram (Bergman et al). 1989;117:204-6 (Brief comm.)

Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure (Rogiers et al). 1989;117:1278-83

"Non-Q wave," alias "nontransmural," myocardial infarction: a specific entity (André-Fouet et al). 1989;117:892-902 (Curriculum cardi-ol.)

Prediction of left ventricular ejection fraction using a unique method of chest x-ray and ECG analysis: a noninvasive index of cardiac performance based on the concept of heart volume and mass interrelationship (Ostojic et al). 1989;117:590-8

QRS scoring and anterior and inferior MI size (Wagner and Hackel) (Letter); (Geltman et al) (Reply). 1989;117:1405-6

Right ventricular infarction: diagnostic value of ST elevation in lead III exceeding that of lead II during inferior/posterior infarction and comparison with right-chest leads V₃R to V₇R (Andersen et al). 1989;117:82-6

Significance of ST segment depression in exercise-induced supraventricular extrasystoles (Michaelides et al). 1989;117:1035-41

An unusual artifactual cause of apparent atrial flutter (Vannelli and Fuller). 1989;117:202-4 (Brief comm.)

Electrocoagulation

Catheter ablation of the ventricular septum with radiofrequency energy (Ring et al). 1989;117:1233-40

Low-energy electrical catheter ablation of sustained ventricular tachycardia originating from the right ventricle (Niawano et al). 1989;117:1155-7 (Brief comm.)

Electrodes, implanted

Defibrillation threshold testing: Necessary but evil? (Vlay). 1989;117:499-504 (Editorial)

The effect of drugs and lead maturation on atrial electrograms during sinus rhythm and atrial fibrillation (Bump et al). 1989;117:577-84

Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs (Radovsky and Van Vleet). 1989;117:1288-98

Electrodes, implanted—Cont'd

Improved internal defibrillation efficacy with a biphasic waveform (Fain et al). 1989;117:358-64

Improved low energy defibrillation efficacy in man with the use of a biphasic truncated exponential waveform (Winkle et al). 1989;117:122-7

Electrodiagnosis

The effect of drugs and lead maturation on atrial electrograms during sinus rhythm and atrial fibrillation (Bump et al). 1989;117:577-84

Electrogram, intracardiac; *see* **Electrodes, implanted**

Electrolytes

Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure (Rogiers et al). 1989;117:1278-83

Electromagnetic waves; *see* **Radiation**

Electrophysiology

Atrial automatic tachycardia with two different types of electrophysiologic characteristics (Fujiki et al). 1989;117:699-701 (Brief comm.)

Electrophysiologic alterations produced by hypoxia in the canine heart (Krause et al). 1989;117:550-61

The electrophysiologic effects of enoximone in patients with preexisting ventricular tachyarrhythmias (Miles et al). 1989;117:112-21

Electrophysiologic effects of intravenous propafenone in Wolff-Parkinson-White syndrome (Dubuc et al). 1989;117:370-6

Therapeutic serum lidocaine and metabolite concentrations in patients undergoing electrophysiologic study after discontinuation of intravenous lidocaine infusion (Estes et al). 1989;117:1060-4

Embolism

Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test (Kaye et al). 1989;117:1169-71 (Brief comm.)

Thyrototoxicosis, atrial fibrillation, and embolism, revisited (Presti and Hart). 1989;117:976-7 (Brief comm.)

Emergency service, hospital

Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22

Encainide

Angina pectoris with encainide in dilated cardiomyopathy (Barron and Billhardt). 1989;117:701-2 (Brief comm.)

Atrial automatic ectopic tachycardia successfully treated with encainide in a 4-week-old infant after Senning procedure (Hays and Gillette). 1989;117:489-92 (Brief comm.)

Encainide and flecainide: Are they interchangeable? (Saini et al). 1989;117:1253-8

Endocardial fibroelastosis

Regression of endocardial fibroelastosis (Pearl). 1989;117:1401 (Letter)

Endocarditis

Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis (Aragam et al). 1989;117:1392-4 (Brief comm.)

Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation (Gross et al). 1989;117:953-7 (Brief comm.)

Tricuspid valve endocarditis (Chan et al). 1989;117:1140-6 (Curriculum cardi-ol.)

Endocardium

Endomyocardial trauma during balloon mitral valvuloplasty (Ramsdale and Schofield). 1989;117:685-7 (Brief comm.)

Enoximone

Disparity between improvement in left ventricular function and changes in clinical status and exercise capacity during chronic enoximone therapy (Leier et al). 1989;117:1092-8

The electrophysiologic effects of enoximone in patients with preexisting ventricular tachyarrhythmias (Miles et al). 1989;117:112-21

Hemodynamic, antiischemic, and neurohumoral effects of enoximone in patients with coronary artery disease (Mitrovic et al). 1989;117:106-11

Enzyme inhibitors

The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models (O'Connor et al). 1989;117:848-53

Enzyme tests

Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion (Devries et al). 1989;117:31-6

Eosinophilia

Hyper-eosinophilic syndrome resulting in aortic and mitral stenosis: a case requiring double valve replacement (Smith et al). 1989;117:475-9 (Brief comm.)

Ergonovine

Time-related decrease in sensitivity to ergonovine in patients with variant angina (Previtali et al). 1989;117:92-9

Estrogens

Risk factors and noncontraceptive estrogen use in women with and without coronary disease (McFarland et al). 1989;117:1209-14

Exercise

Disparity between improvement in left ventricular function and changes in clinical status and exercise capacity during chronic enoximone therapy (Leier et al). 1989;117:1092-8

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)

Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302

Exercise-induced AV block (Özder et al) (Letter); (Peller and Klugfield) (Reply). 1989;117:1407-9

Plasma levels of atrial natriuretic peptide during myocardial ischemia induced by percutaneous transluminal coronary angioplasty or dynamic exercise (Ikäheimo et al). 1989;117:837-41

Exercise test

Blood pressure and cardiac output during exercise: a longitudinal study of children undergoing repair of coarctation (Murphy et al). 1989;117:1327-32

The effects of successful PTCA on left ventricular function: assessment by exercise echocardiography (Labovitz et al). 1989;117:1003-8

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)

Exercise-related changes in serum catecholamines and potassium: effect of sustained exercise above and below lactate threshold (Coplan et al). 1989;117:1070-5

Exercise testing in angina pectoris: the importance of protocol design in clinical trials (Webster and Sharpe). 1989;117:505-8 (Editorial)

Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction (Silberberg et al). 1989;117:532-7

The mechanisms of exercise provocation of supraventricular tachycardia (Yeh et al). 1989;117:1041-9

Prognostic value of early exercise stress testing after successful coronary angioplasty: importance of the degree of revascularization (Deligonul et al). 1989;117:509-14

Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test (Kaye et al). 1989;117:1169-71 (Brief comm.)

Restenosis after angioplasty: don't rely on the exercise test (Vlay et al). 1989;117:980-6 (Editorial)

Significance of ST segment depression in exercise-induced supraventricular extrasystoles (Michaelides et al). 1989;117:1035-41

Extrasystole

Significance of ST segment depression in exercise-induced supraventricular extrasystoles (Michaelides et al). 1989;117:1035-41

Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy (Batchelor et al). 1989;117:1264-70

F**Fab fragment; see Immunoglobulins, Fab****Fabry's disease; see Angiokeratoma corporis diffusum****Fascicular block; see Bundle-branch block****Femoral artery**

Utility of Doppler color flow imaging for identification of femoral arterial complications of cardiac catheterization (Sheikh et al). 1989;117:623-8

Fiber optics

Percutaneous coronary angiography by means of a fiberoptic with a steerable guide wire (Uchida). 1989;117:1153-5 (Brief comm.)

Fiberscope; see Fiber optics**Fibrinolytic agents**

Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8

Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis (Matsuda et al). 1989;117:1014-7

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5 (Letter)

Fistula

Color flow mapping in the diagnosis of coronary artery fistula in the neonate: benefits and limitations (Kimball et al). 1989;117:968-71 (Brief comm.)

Doppler echocardiographic diagnosis of aortopulmonary fistula following aortic valve replacement for endocarditis (Aragam et al). 1989;117:1392-4 (Brief comm.)

Pseudoaneurysm formation with fistulous communication to the left atrium after surgical interruption of an accessory atrioventricular pathway (Cherix et al). 1989;117:1394-6 (Brief comm.)

Flecainide

Efficacy and safety of flecainide in low-risk patients with chronic ventricular arrhythmias: a two-year follow-up (Facchini et al). 1989;117:1258-64

Encainide and flecainide: Are they interchangeable? (Saini et al). 1989;117:1253-8

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

Flowmeters; see also Echocardiography, Doppler

Utility of Doppler color flow imaging for identification of femoral arterial complications of cardiac catheterization (Sheikh et al). 1989;117:623-8

Follow-up studies

Short-, medium-, and long-term follow-up after percutaneous transluminal coronary angioplasty for stable and unstable angina pectoris (Kamp et al). 1989;117:991-6

Fontan procedure, modified

Successful pregnancy following modified Fontan procedure in a patient with tricuspid atresia and recurrent atrial flutter (Fyfe et al). 1989;117:1387-8 (Brief comm.)

Framingham Study

Prevalence of intraventricular block in the general population: the Framingham Study (Kreger et al). 1989;117:903-10 (Prog. cardiol.)

France

Nicardipine in elderly patients with hypertension: a review of experience in France (Forette et al). 1989;117:256-61 (Symposium)

Free radicals

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

G**Garlic**

Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries (DeBoer and Folts). 1989;117:973-5 (Brief comm.)

Great Britain

Nicardipine in the elderly hypertensive: a review of experience in the United Kingdom (Littler). 1989;117:262-5 (Symposium)

H**Heart, physiology**

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

Electrophysiologic alterations produced by hypoxia in the canine heart (Krause et al). 1989;117:550-61

Prediction of left ventricular ejection fraction using a unique method of chest x-ray and ECG analysis: a noninvasive index of cardiac performance based on the concept of heart volume and mass interrelationship (Ostojic et al). 1989;117:590-8

Heart, transplantation

Pseudo-complete AV block following orthotopic cardiac transplantation (de Marchena et al). 1989;117:1173-4 (Brief comm.)

Heart arrest

Ambulatory sudden cardiac death: mechanisms of production of fatal arrhythmia on the basis of data from 157 cases (Bayés de Luna et al). 1989;117:151-9 (Curriculum cardiol.)

Life-threatening hyperkalemia in severe heart failure (Chakko et al). 1989;117:1083-91

Sudden death and silent myocardial ischemia (Sheps and Heiss). 1989;117:177-84 (Prog. cardiol.)

Heart atrium; see also Atrial fibrillation

LA enlargement in hypertension (Pollick) (Letter); (Crawford) (Reply). 1989;117:1409-10

Left atrial thrombus (Zatuchni). 1989;117:1405 (Letter)

Pseudoaneurysm formation with fistulous communication to the left atrium after surgical interruption of an accessory atrioventricular pathway (Cherix et al). 1989;117:1394-6 (Brief comm.)

Heart block; see also Heart conduction system

Exercise-induced AV block (Özder et al) (Letter); (Peller and Kligfield) (Reply). 1989;117:1407-9

Pseudo-complete AV block following orthotopic cardiac transplantation (de Marchena et al). 1989;117:1173-4 (Brief comm.)

Heart catheterization

Balloon mitral valvuloplasty via retrograde left atrial catheterization (Orme et al). 1989;117:680-3 (Prog. cardiol.)

Lipomatous encasement and compression of the heart: ante-mortem diagnosis by cardiac nuclear magnetic resonance imaging and catheterization (Rokeby et al). 1989;117:952-3 (Brief comm.)

Utility of Doppler color flow imaging for identification of femoral arterial complications of cardiac catheterization (Sheikh et al). 1989;117:623-8

Heart conduction system; see also Heart block

Electrotropic inhibition and supernormal conduction (Kinoshita and Konishi) (Letter); (Oreto et al) (Reply). 1989;117:1402-3

Exercise-induced AV block (Özder et al) (Letter); (Peller and Kligfield) (Reply). 1989;117:1407-9

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33

Repolarization interactions between cardiac segments of varying action potential duration (Duo et al). 1989;117:854-61

Slow conduction in the infarct scar: relevance to the occurrence, detection, and ablation of ventricular reentry circuits resulting from myocardial infarction (Stevenson et al). 1989;117:452-67 (Prog. cardiol.)

Heart defects, congenital

Age at death in the hypoplastic left heart syndrome: multivariate analysis and importance of the coronary arteries (Lloyd and Marvin). 1989;117:1337-43

Color flow mapping in the diagnosis of coronary artery fistula in the neonate: benefits and limitations (Kimball et al). 1989;117:968-71 (Brief comm.)

Congenital diverticulum of the right ventricle: report of two cases associated with other congenital heart defects (Hallali et al). 1989;117:957-9 (Brief comm.)

Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy (Sharif et al). 1989;117:1333-6

Heart diseases; see also Myocardial diseases

Acquired immunodeficiency syndrome and heart disease: the present and the future (Coplan and Bruno). 1989;117:1175-7 (Editorial)

Symptomatic cardiac dysfunction in children with human immunodeficiency virus infection (Stewart et al). 1989;117:140-4

Heart enlargement

LA enlargement in hypertension (Pollick) (Letter); (Crawford) (Reply). 1989;117:1409-10

Heart failure, congestive

Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoceptors (dopexamine) in patients with heart failure (Jamison et al). 1989;117:607-14

Diurnal change of plasma atrial natriuretic peptide concentrations in patients with congestive heart failure (Yoshino et al). 1989;117:1316-9

Heart Failure, congestive—Cont'd

Intracellular distribution of adrenoceptors in the failing human myocardium (Limas et al). 1989;117:1310-6

Is the adaptation of right ventricular refractoriness to an abrupt increase in heart rate impaired in chronic heart failure? (Dernardo and Stevenson). 1989;117:585-9

Noninvasive assessment of diastolic and systolic properties of ibopamine in patients with congestive heart failure (Stoddard et al). 1989;117:395-402

Percutaneous balloon valvuloplasty via the right internal jugular vein for valvular pulmonic stenosis with severe right ventricular failure (Chaar et al). 1989;117:684-5 (Brief comm.)

Peripheral hemodynamic effects of captopril in patients with congestive heart failure (Nishimura et al). 1989;117:100-5

Plasma atrial natriuretic polypeptide as an index of left ventricular end-diastolic pressure in patients with chronic left-sided heart failure (Tsutamoto et al). 1989;117:599-606

Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Heart function tests

Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol (Al-Wathiqui et al). 1989;117:791-8

Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle (Choong et al). 1989;117:819-29

Heart rate

Is the adaptation of right ventricular refractoriness to an abrupt increase in heart rate impaired in chronic heart failure? (Dernardo and Stevenson). 1989;117:585-9

Heart rupture, post-infarction

Ventricular septal and free wall rupture complicating acute myocardial infarction: experience in the Multicenter Investigation of Limitation of Infarct Size (Pohjola-Sintonen et al). 1989;117:809-18

Heart septal defects, atrial

Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm (Alfonso et al). 1989;117:695-7 (Brief comm.)

Interatrial septal thickening preventing percutaneous mitral valve balloon valvuloplasty (Sheikh et al). 1989;117:206-10 (Brief comm.)

Heart septal defects, ventricular

Color Doppler findings in ventricular septal dissection following myocardial infarction (Amico et al). 1989;117:195-8 (Brief comm.)

Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy (Sharif et al). 1989;117:1333-6

Ventricular septal and free wall rupture complicating acute myocardial infarction: experience in the Multicenter Investigation of Limitation of Infarct Size (Pohjola-Sintonen et al). 1989;117:809-18

Heart septum

Catheter ablation of the ventricular septum with radiofrequency energy (Ring et al). 1989;117:1233-40

Heart surgery

Propafenone and 5-hydroxypropafenone concentrations in the right atrium of patients undergoing heart surgery (Latini et al). 1989;117:497-8 (Brief comm.)

Heart valve prosthesis

Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation (Gross et al). 1989;117:953-7 (Brief comm.)

Echocardiographic detection of abnormal attachment of a Björk-Shiley prosthesis to the interatrial septum causing an atrial septal aneurysm (Alfonso et al). 1989;117:695-7 (Brief comm.)

Long-term follow-up after Carpentier tricuspid valvuloplasty (Lambertz et al). 1989;117:615-22

Thrombotic obstruction of prosthetic aortic valve presenting as acute myocardial infarction (Quintanilla and Haque). 1989;117:1378-9 (Brief comm.)

Heart valves, pathology

Valvular prolapse and great vessel dilatation in multiple endocrine neoplasia type 2B (Dulaney and Arvan). 1989;117:198-201 (Brief comm.)

Heart ventricle, abnormalities

- Congenital diverticulum of the right ventricle: report of two cases associated with other congenital heart defects (Hallali et al). 1989;117:957-9 (Brief comm.)
- Ebstein's anomaly with ventricular tachycardia: evidence for the arrhythmogenic role of the atrialized ventricle (Lo et al). 1989;117:959-62 (Brief comm.)
- Quantification of left ventricular myocardial mass in humans by nuclear magnetic resonance imaging (Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)
- Two-dimensional echocardiographic determination of ventricular septal defect size: correlation with autopsy (Sharif et al). 1989;117:1333-6

Heart ventricle, animal

- Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33
- Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle (Choong et al). 1989;117:819-29

Heart ventricle, drug effects

- Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5
- Efficacy and safety of flecainide in low-risk patients with chronic ventricular arrhythmias: a two-year follow-up (Fachini et al). 1989;117:1258-64
- Induction of ventricular arrhythmia by high and low osmolarity ionic and nonionic contrast media (Pinto et al). 1989;117:1283-7
- Noninvasive assessment of diastolic and systolic properties of ibopamine in patients with congestive heart failure (Stoddard et al). 1989;117:395-402
- A prospective comparison of programmed ventricular stimulation with triple extrastimuli versus single and double extrastimuli during infusion of isoproterenol (Baerman et al). 1989;117:342-7

Heart ventricle, injuries

- Ventricular septal and free wall rupture complicating acute myocardial infarction: experience in the Multicenter Investigation of Limitation of Infarct Size (Pohjola-Sintonen et al). 1989;117:809-18

Heart ventricle, pathology

- The hemodynamics of left ventricular pseudoaneurysm: color Doppler echocardiographic study (Tunick et al). 1989;117:1161-5 (Brief comm.)
- Left ventricular myxoma simulating aortic stenosis (Rosenzweig et al). 1989;117:962-3 (Brief comm.)
- Left ventricular recurrence of a resected left atrial myxoma (Pavlidis et al). 1989;117:1390-2 (Brief comm.)
- Left ventricular thrombus with normal left ventricular wall motion in a patient with myelofibrosis (Stoddard et al). 1989;117:966-8 (Brief comm.)
- Right ventricular infarction: diagnostic value of ST elevation in lead III exceeding that of lead II during inferior/posterior infarction and comparison with right-chest leads V₃R to V₇R (Andersen et al). 1989;117:82-6

Heart ventricle, physiology

- Disparity between improvement in left ventricular function and changes in clinical status and exercise capacity during chronic enoximone therapy (Leier et al). 1989;117:1092-8
- Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function (Ferguson et al). 1989;117:18-24
- The effects of successful PTCA on left ventricular function: assessment by exercise echocardiography (Labovitz et al). 1989;117:1003-8
- Interdependence of the left and right ventricles in health and disease (Clyne et al). 1989;117:1366-73 (Curriculum cardiol.)
- Prohormone atrial natriuretic peptides 1-30, 31-67, and 99-126 increase in proportion to right ventricular pacing rate (Ngo et al). 1989;117:385-90
- Pulsed Doppler echocardiographic determination of the time course of left ventricular filling: validation with cineangiography (Ferguson et al). 1989;117:127-32
- The significance of increased left ventricular outflow tract velocities in the elderly measured by continuous wave Doppler (Agatston et al). 1989;117:1320-6

Heart ventricle, physiopathology

- Catheter ablation of the ventricular septum with radiofrequency energy (Ring et al). 1989;117:1233-40
- Is the adaptation of right ventricular refractoriness to an abrupt increase in heart rate impaired in chronic heart failure? (Denardo and Stevenson). 1989;117:585-9
- Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction (Silberberg et al). 1989;117:532-7
- Low-energy electrical catheter ablation of sustained ventricular tachycardia originating from the right ventricle (Niawano et al). 1989;117:1155-7 (Brief comm.)
- Postpartum myocardial infarction in a patient with intermittent ventricular preexcitation (Wittry et al). 1989;117:191-4 (Brief comm.)
- Prevalence of intraventricular block in the general population: the Framingham Study (Kreger et al). 1989;117:903-10 (Prog. cardiol.)
- Regression of left ventricular mass is accompanied by improvement in rapid left ventricular filling following antihypertensive therapy with metoprolol (White et al). 1989;117:145-50
- Role of resting thallium²⁰¹ perfusion in predicting coronary anatomy, left ventricular wall motion, and hospital outcome in unstable angina pectoris (Freeman et al). 1989;117:306-14
- Ventricular ectopy in totally symptom-free subjects with defined coronary artery anatomy (Batchelor et al). 1989;117:1264-70

Heart ventricle, radiography

- Quantification of left ventricular myocardial mass in humans by nuclear magnetic resonance imaging (Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)

Hemangioma, cavernous

- Huge cavernous hemangioma of the heart: a completely evaluated case report and review of the literature (Grenadier et al). 1989;117:479-81 (Brief comm.)

Hemodynamics; see also Hemodynamics, drug effects

- The hemodynamics of left ventricular pseudoaneurysm: color Doppler echocardiographic study (Tunick et al). 1989;117:1161-5 (Brief comm.)
- New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)
- Percutaneous balloon valvuloplasty for tricuspid stenosis: hemodynamic and pathological findings (Bourdillon et al). 1989;117:492-5 (Brief comm.)
- Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Hemodynamics, drug effects

- The electrophysiologic effects of enoximone in patients with preexisting ventricular tachyarrhythmias (Miles et al). 1989;117:112-21
- Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22
- Hemodynamic, antiischemic, and neurohumoral effects of enoximone in patients with coronary artery disease (Mitrovic et al). 1989;117:106-11
- Peripheral hemodynamic effects of captopril in patients with congestive heart failure (Nishimura et al). 1989;117:100-5
- Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

Heparin

- Effect of 18- to 24-hour heparin administration for prevention of restenosis after uncomplicated coronary angioplasty (Ellis et al). 1989;117:777-82
- Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

HIV

- Symptomatic cardiac dysfunction in children with human immunodeficiency virus infection (Stewart et al). 1989;117:140-4

HIV infection; see Acquired immunodeficiency, syndrome
Human immunodeficiency virus; see HIV
Hydatid cyst; see Echinococcosis
Hyper eosinophilic syndrome; see Eosinophilia
Hyperkalemia

Life-threatening hyperkalemia in severe heart failure (Chakko et al). 1989;117:1083-91

Hypertension, drug therapy; see also Hypertension, physiopathology

The clinical performance of nicardipine in elderly hypertensive patients with concomitant diseases (Leonetti). 1989;117:266-9 (Symposium)

Effects of nicardipine on blood pressure and renal function in elderly hypertensive patients with renal dysfunction (Saruta). 1989;117:243-9 (Symposium)

The effects of terazosin and methyclothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7

New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)

Nicardipine in elderly patients with hypertension: a review of experience in France (Forette et al). 1989;117:256-61 (Symposium)

Nicardipine in the elderly hypertensive: a review of experience in the United Kingdom (Littler). 1989;117:262-5 (Symposium)

Nicardipine monotherapy in ambulatory elderly patients with hypertension (Krakoff). 1989;117:250-5 (Symposium)

Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

Regression of left ventricular mass is accompanied by improvement in rapid left ventricular filling following antihypertensive therapy with metoprolol (White et al). 1989;117:145-50

Symposium on hypertension in the elderly: focus on nicardipine—General group discussion (Sever). 1989;117:270-2 (Symposium)

Symposium on hypertension in the elderly: focus on nicardipine—Introduction (Sever). 1989;117:228 (Symposium)

Symposium on hypertension in the elderly: focus on nicardipine—Summary (Sever). 1989;117:273 (Symposium)

Hypertension, physiopathology

LA enlargement in hypertension (Pollick) (Letter); (Crawford) (Reply). 1989;117:1409-10

Hypertrophic cardiomyopathy; see Cardiomyopathy, hypertrophic

Hyposplastic left heart syndrome; see Heart defects, congenital

Hypoxia; see Anoxia

I

Ibopamine

Noninvasive assessment of diastolic and systolic properties of ibopamine in patients with congestive heart failure (Stoddard et al). 1989;117:395-402

Immunization

Immunologic approaches to blockade of the renin-angiotensin system: a review (Michel et al). 1989;117:756-67 (Symposium)

Immunoglobulins, Fab

Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment (Rezkalla et al). 1989;117:391-5

Infant; see also Heart defects, congenital

Critical pulmonary valve stenosis in patients less than 1 year of age: treatment with percutaneous gradational balloon pulmonary valvuloplasty (Khan et al). 1989;117:1008-14

Transvenous antegrade balloon angioplasty for recoarctation of the aorta in an infant (Lo et al). 1989;117:1157-9 (Brief comm.)

Inflammation

Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302

Infusions, intravenous

Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22

Infusions, intravenous—Cont'd

Therapeutic serum lidocaine and metabolite concentrations in patients undergoing electrophysiologic study after discontinuation of intravenous lidocaine infusion (Estes et al). 1989;117:1060-4

Interatrial septum; see Heart septum

Intracardiac electrograms; see Electrodes, implanted
Iron, deficiency

The iron paradigm of ischemic heart disease (Sullivan). 1989;117:1177-88 (Editorial)

Ischemia, myocardial; see Myocardium, blood supply

Ischemic heart disease; see Coronary disease

Isoproterenol

A prospective comparison of programmed ventricular stimulation with triple extrastimuli versus single and double extrastimuli during infusion of isoproterenol (Baerman et al). 1989;117:342-7

Isosorbide dinitrate

Dose- and time-related vasodilator response of conduit coronary arteries to intracoronary isosorbide dinitrate in human beings (Simonetti et al). 1989;117:323-31

K

Kawasaki disease; see Mucocutaneous lymph node syndrome

Kidney circulation; see Renal circulation

L

Lactates

Exercise-related changes in serum catecholamines and potassium: effect of sustained exercise above and below lactate threshold (Coplan et al). 1989;117:1070-5

Laminin

Laminin distribution and autoantibodies to laminin in dilated cardiomyopathy and myocarditis (Wolff et al). 1989;117:1303-9

Laser surgery

Percutaneous pulsed laser-assisted balloon angioplasty guided by spectroscopy (Geschwind et al). 1989;117:1147-52 (Prog. cardi.)

Letters

ANP in AMI (Tan et al) (Letter); (Matsubara et al) (Reply). 1989;117:1406-7

Balloon dilation in discrete subaortic stenosis (Biancaniello) (Letter); (Arora) (Reply). 1989;117:1397

Catecholamine cardiotoxicity in pheochromocytoma (Ganguly et al). 1989;117:1399-400

Cocaine-induced myocarditis (Jentzen) (Letter); (Robinowitz et al) (Reply). 1989;117:1398-9

Doppler-estimated mitral valve area (Yang and Goldberg) (Letter); (Posma et al) (Letter); (Labovitz et al) (Reply). 1989;117:1403-4

ECG diagnosis of MI in LBBB (Spodick) (Letter); (Hands and Rutherford) (Reply). 1989;117:1409

Electrotonic inhibition and supernormal conduction (Kinoshita and Konishi) (Letter); (Oreto et al) (Reply). 1989;117:1402-3

Exercise-induced AV block (Özder et al) (Letter); (Peller and Kligfield) (Reply). 1989;117:1407-9

LA enlargement in hypertension (Pollick) (Letter); (Crawford) (Reply). 1989;117:1409-10

Left atrial thrombus (Zatuchni). 1989;117:1405

Myocarditis in Kawasaki disease (Ino et al). 1989;117:1400-1

QRS scoring and anterior and inferior MI size (Wagner and Hackel) (Letter); (Geltman et al) (Reply). 1989;117:1405-6

Regression of endocardial fibroelastosis (Pearl). 1989;117:1401

Spontaneous reversion of VF (Viskin and Belhassen) (Letter); (Podrid) (Reply). 1989;117:1401-2

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5

Transverse balloon tear in valvuloplasty (Dev and Shrivastava). 1989;117:1397-8

Leukopenia

Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorge et al). 1989;117:523-32

Lidocaine

Therapeutic serum lidocaine and metabolite concentrations in patients undergoing electrophysiologic study after discontinuation of intravenous lidocaine infusion (Estes et al). 1989;117:1060-4

Lipids

- The effects of terazosin and methyclothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7
Recent studies on the effects of beta blockers on blood lipid levels (Roberts). 1989;117:709-14 (Editorial)

Lipoma

- Lipomatous encasement and compression of the heart: ante-mortem diagnosis by cardiac nuclear magnetic resonance imaging and catheterization (Rokey et al). 1989;117:952-3 (Brief comm.)

Lymphocytes

- Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302

Magnesium sulfate

- Effect of the infusion of magnesium sulfate during atrial pacing on ECG intervals, serum electrolytes, and blood pressure (Rogiers et al). 1989;117:83

Magnetic resonance imaging

- Detection of apical hypertrophic cardiomyopathy by magnetic resonance imaging (Casolo et al). 1989;117:468-72 (Brief comm.)
Magnetic resonance imaging of vascular conduits in coarctation of the aorta (Pucillo et al). 1989;117:482-5 (Brief comm.)
Myocardial tissue characterization by magnetic resonance imaging in Fabry's disease (Matsui et al). 1989;117:472-4 (Brief comm.)
Noninvasive evaluation of mitral regurgitation by analysis of left atrial signal loss in cine magnetic resonance (Pflugfelder et al). 1989;117:1113-9
Quantitation of antegrade and retrograde blood flow in the human aorta by magnetic resonance velocity mapping (Bogren et al). 1989;117:1214-22

Magnetic resonance spectroscopy; see Nuclear magnetic resonance**Mass screening**

- Population screening for plasma cholesterol: community-based results from Connecticut (Wynder et al). 1989;117:649-56

Methoxy isobutyl isonitrile

- Comparison of technetium 99m methoxy isobutyl isonitrile and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods (Kiat et al). 1989;117:1-11

Methyclothiazide

- The effects of terazosin and methyclothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7

Metoprolol

- Regression of left ventricular mass is accompanied by improvement in rapid left ventricular filling following antihypertensive therapy with metoprolol (White et al). 1989;117:145-50

Mexiletine

- Proarrhythmia related to a kinetic and dynamic interaction of mexiletine and theophylline (Kessler et al). 1989;117:964-6 (Brief comm.)

Microscopy

- Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

- Percutaneous coronary angiography by means of a fiberscope with a steerable guide wire (Uchida). 1989;117:1153-5 (Brief comm.)

Mitral regurgitation; see Mitral valve insufficiency**Mitral valve**

- Calculation of transmitral flow by Doppler echocardiography: a comparison of methods in a canine model (Asch et al). 1989;117:402-11

- Doppler-estimated mitral valve area (Yang and Goldberg) (Letter); (Posma et al) (Letter); (Labovitz et al) (Reply). 1989;117:1403-4

- Echocardiographic appearance of a flail bioprosthetic mitral valve leaflet mimicking vegetation (Gross et al). 1989;117:953-7 (Brief comm.)

Mitral valve insufficiency

- Diastolic mitral regurgitation in acute but not chronic aortic regurgitation: implications regarding the mechanism of mitral closure (Downes et al). 1989;117:1106-12

- Noninvasive evaluation of mitral regurgitation by analysis of left atrial signal loss in cine magnetic resonance (Pflugfelder et al). 1989;117:1113-9

Mitral valve insufficiency—Cont'd

- Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al). 1989;117:636-42

- Severe hemolytic anemia following mitral valve repair (Mok et al). 1989;117:1171-3 (Brief comm.)

Mitral valve stenosis

- Balloon dilatation of a stenotic dura mater mitral bioprosthesis (Arie et al). 1989;117:201-2 (Brief comm.)

- Balloon mitral valvuloplasty via retrograde left atrial catheterization (Orme et al). 1989;117:680-3 (Prog. cardiol.)

- Echophonocardiography in patients undergoing percutaneous mitral balloon valvotomy (PMV): the learning curve of PMV (Brandi-Pifano et al). 1989;117:25-31

- Endomyocardial trauma during balloon mitral valvuloplasty (Ramsdale and Schofield). 1989;117:685-7 (Brief comm.)

- Hyper eosinophilic syndrome resulting in aortic and mitral stenosis: a case requiring double valve replacement (Smith et al). 1989;117:475-9 (Brief comm.)

- Interatrial septal thickening preventing percutaneous mitral valve balloon valvuloplasty (Sheikh et al). 1989;117:206-10 (Brief comm.)

- Rapid fall in elevated plasma atrial natriuretic peptide levels after successful catheter balloon valvuloplasty of mitral stenosis (Hung et al). 1989;117:381-5

- Semiquantitative evaluation of aortic regurgitation by Doppler echocardiography: effects of associated mitral stenosis (Masuyama et al). 1989;117:133-9

Monoclonal antibodies; see Antibodies, monoclonal**Mucocutaneous lymph node syndrome**

- Myocarditis in Kawasaki disease (Ino et al). 1989;117:1400-1 (Letter)

Myelofibrosis

- Left ventricular thrombus with normal left ventricular wall motion in a patient with myelofibrosis (Stoddard et al). 1989;117:966-8 (Brief comm.)

Myocardial diseases

- Acquired immunodeficiency syndrome and heart disease: the present and the future (Coplan and Bruno). 1989;117:1175-7 (Editorial)

Myocardial diseases, animal

- Amelioration by β -adrenergic blockade of regional myocardial dysfunction induced by coronary artery occlusion after, but not before collateral development in conscious dogs (Mohri et al). 1989;117:43-52

- Myocardial salvage after regional beta-adrenergic blockade (Wappel et al). 1989;117:37-42

Myocardial diseases, complications

- Symptomatic cardiac dysfunction in children with human immunodeficiency virus infection (Stewart et al). 1989;117:140-4

Myocardial diseases, drug therapy

- Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)

- Recently diagnosed idiopathic dilated cardiomyopathy: incidence of myocarditis and efficacy of prednisone therapy (Latham et al). 1989;117:876-82

Myocardial diseases, radiography

- Detection of apical hypertrophic cardiomyopathy by magnetic resonance imaging (Casolo et al). 1989;117:468-72 (Brief comm.)

Myocardial diseases, surgery

- Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)

Myocardial infarction

- Angiographic demonstration of plaque fissure associated with acute coronary occlusion (Alpert et al). 1989;117:185-6 (Brief comm.)

- The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study (Goldberg et al). 1989;117:543-9

- Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction (Silberberg et al). 1989;117:532-7

- Postpartum myocardial infarction in a patient with intermittent ventricular preexcitation (Wittry et al). 1989;117:191-4 (Brief comm.)

- QRS scoring and anterior and inferior MI size (Wagner and Hackel) (Letter); (Geltman et al) (Reply). 1989;117:1405-6

Myocardial infarction, analysis

- ANP in AMI (Tan et al) (Letter); (Matsubara et al) (Reply). 1989;117:1406-7
- Atrial natriuretic peptide and acute myocardial infarction (Svanegaard et al). 1989;117:194-5 (Brief comm.)

Myocardial infarction, animal

- Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction (Vanoli et al). 1989;117:348-57
- The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models (O'Connor et al). 1989;117:848-53
- Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion (Devries et al). 1989;117:31-6
- Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorge et al). 1989;117:523-32
- Relationship of functional recovery to scar contraction after myocardial infarction in the canine left ventricle (Choong et al). 1989;117:819-29

Myocardial infarction, classification

- "Non-Q wave," alias "nontransmural," myocardial infarction: a specific entity (André-Fouet et al). 1989;117:892-902 (Curriculum cardiol.)

Myocardial infarction, complications

- Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8
- Color Doppler findings in ventricular septal dissection following myocardial infarction (Amico et al). 1989;117:195-8 (Brief comm.)
- Management of myocardial infarction shock: current status (Schreiber et al). 1989;117:435-43 (Curriculum cardiol.)
- Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis (Matsuda et al). 1989;117:1014-7
- Slow conduction in the infarct scar: relevance to the occurrence, detection, and ablation of ventricular reentry circuits resulting from myocardial infarction (Stevenson et al). 1989;117:452-67 (Prog. cardiol.)
- Ventricular septal and free wall rupture complicating acute myocardial infarction: experience in the Multicenter Investigation of Limitation of Infarct Size (Pohjola-Sintonen et al). 1989;117:809-18

Myocardial infarction, diagnosis

- ECG diagnosis of MI in LBBB (Spodick) (Letter); (Hands and Rutherford) (Reply). 1989;117:1409
- Right ventricular infarction: diagnostic value of ST elevation in lead III exceeding that of lead II during inferior/posterior infarction and comparison with right-chest leads V₃R to V₇R (Andersen et al). 1989;117:82-6
- Thrombotic obstruction of prosthetic aortic valve presenting as acute myocardial infarction (Quintanilla and Haque). 1989;117:1378-9 (Brief comm.)

Myocardial infarction, drug therapy

- Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22

Myocardial infarction, etiology

- Recurrent myocardial infarction and sudden death after sport (Ciampricotti and El Gamal). 1989;117:188-91 (Brief comm.)

Myocardial infarction, history

- Carbon monoxide and lethal arrhythmias in conscious dogs with a healed myocardial infarction (Vanoli et al). 1989;117:348-57

Myocardial infarction, occurrence

- The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study (Goldberg et al). 1989;117:543-9

Myocardial infarction, pathology

- Assessment of myocardial infarct size by means of T₂-weighted ¹H nuclear magnetic resonance imaging (Bouchard et al). 1989;117:281-9
- Pericarditis in acute myocardial infarction: characterization and clinical significance (Toffer et al). 1989;117:86-92

Myocardial infarction, rehabilitation

- Oxygen uptake and heart rate during cross-country skiing and track walking after myocardial infarction (Oldridge and Connolly). 1989;117:495-7 (Brief comm.)

Myocardial infarction, therapy

- Transient reversal of bifascicular block during acute myocardial infarction with reperfusion therapy: a word of caution (Wiseman et al). 1989;117:1381-3 (Brief comm.)

Myocardial infarction, trends

- Changing patterns of acute myocardial infarction: decline in period prevalence and delay in onset (Keil et al). 1989;117:1022-9

Myocardial ischemia; see Coronary disease; Myocardium, blood supply

Myocardial reperfusion

- Controlled versus hyperemic flow during reperfusion of jeopardized ischemic myocardium (Peng et al). 1989;117:515-22
- Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorge et al). 1989;117:523-32
- Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9
- Transient reversal of bifascicular block during acute myocardial infarction with reperfusion therapy: a word of caution (Wiseman et al). 1989;117:1381-3 (Brief comm.)

Myocardial reperfusion injury

- Enzymatic estimation of the extent of irreversible myocardial injury early after reperfusion (Devries et al). 1989;117:31-6
- Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Myocardial revascularization

- Prognostic value of early exercise stress testing after successful coronary angioplasty: importance of the degree of revascularization (Deligonul et al). 1989;117:509-14

Myocardopathies; see Myocardial diseases

Myocarditis

- Cocaine-induced myocarditis (Jentzen) (Letter); (Robinowitz et al) (Reply). 1989;117:1398-9
- Detection of experimental myocarditis by monoclonal antimyosin antibody, Fab fragment (Rezkalla et al). 1989;117:391-5
- Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302
- Laminin distribution and autoantibodies to laminin in dilated cardiomyopathy and myocarditis (Wolff et al). 1989;117:1303-9
- Management strategies in viral myocarditis (Rezkalla and Kloner). 1989;117:706-8 (Editorial)
- Myocarditis in Kawasaki disease (Ino et al). 1989;117:1400-1 (Letter)
- Recently diagnosed idiopathic dilated cardiomyopathy: incidence of myocarditis and efficacy of prednisone therapy (Latham et al). 1989;117:876-82

Myocardium, blood supply

- Ambulatory (Holter) electrocardiography and myocardial ischemia (Kennedy and Wiens). 1989;117:164-76 (Prog. cardiol.)
- Asymptomatic left main coronary artery disease and silent myocardial ischemia (Shaw et al). 1989;117:537-42
- Controlled versus hyperemic flow during reperfusion of jeopardized ischemic myocardium (Peng et al). 1989;117:515-22
- Detection and management of patients with silent myocardial ischemia (Kannel). 1989;117:221-6 (Editorial)
- Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al). 1989;117:1203-9
- Doppler assessment of left ventricular diastolic filling during brief coronary occlusion (de Bruyne et al). 1989;117:629-35
- Myocardial ischemia in patients awaiting coronary artery bypass grafting (Knight et al). 1989;117:1189-95
- Relationship of alternans of monophasic action potential and conduction delay inside the ischemic border zone to serious ventricular arrhythmias during acute myocardial ischemia in dogs (Abe et al). 1989;117:1223-33
- Sudden death and silent myocardial ischemia (Sheps and Heiss). 1989;117:177-84 (Prog. cardiol.)

Myocardium, cytology

- Intracellular distribution of adrenoceptors in the failing human myocardium (Limas et al). 1989;117:1310-6

Myocardium, drug effects

- Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol (Al-Wathiqui et al). 1989;117:791-8

Myocardium, injury

- Endomyocardial trauma during balloon mitral valvuloplasty (Ramsdale and Schofield). 1989;117:685-7 (Brief comm.)

Myocardium, metabolism

Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9

Myocardium, physiopathology

The hibernating myocardium (Rahimtoola). 1989;117:211-21 (Editorial)

Myxoma

Left ventricular myxoma simulating aortic stenosis (Rosenzweig et al). 1989;117:962-3 (Brief comm.)

Left ventricular recurrence of a resected left atrial myxoma (Pavlidis et al). 1989;117:1390-2 (Brief comm.)

Rare attachment of left atrial myxoma: two-dimensional echocardiographic evidence (Torrecilla et al). 1989;117:1389-90 (Brief comm.)

N**Natriuresis**

Natriuresis associated with elevated plasma atrial natriuretic hormone during supraventricular tachycardia (Nicklas et al). 1989;117:377-81

Natriuretic peptides, atrial

ANP in AMI (Tan et al) (Letter); (Matsubara et al) (Reply). 1989;117:1406-7

Atrial natriuretic peptide and acute myocardial infarction (Svanegaard et al). 1989;117:194-5 (Brief comm.)

Diurnal change of plasma atrial natriuretic peptide concentrations in patients with congestive heart failure (Yoshino et al). 1989;117:1316-9

Natriuresis associated with elevated plasma atrial natriuretic hormone during supraventricular tachycardia (Nicklas et al). 1989;117:377-81

Plasma atrial natriuretic polypeptide as an index of left ventricular end-diastolic pressure in patients with chronic left-sided heart failure (Tsutamoto et al). 1989;117:599-606

Plasma levels of atrial natriuretic peptide during myocardial ischemia induced by percutaneous transluminal coronary angioplasty or dynamic exercise (Ikäheimo et al). 1989;117:837-41

Prohormone atrial natriuretic peptides 1-30, 31-67, and 99-126 increase in proportion to right ventricular pacing rate (Ngo et al). 1989;117:385-90

Rapid fall in elevated plasma atrial natriuretic peptide levels after successful catheter balloon valvuloplasty of mitral stenosis (Hung et al). 1989;117:381-5

Neoplasm recurrence, local

Left ventricular recurrence of a resected left atrial myxoma (Pavlidis et al). 1989;117:1390-2 (Brief comm.)

Neoplasms, multiple endocrine

Valvular prolapse and great vessel dilatation in multiple endocrine neoplasia type 2B (Dulaney and Arvan). 1989;117:198-201 (Brief comm.)

Nicardipine

The clinical performance of nicardipine in elderly hypertensive patients with concomitant diseases (Leonetti). 1989;117:266-9 (Symposium)

Effects of nicardipine on blood pressure and renal function in elderly hypertensive patients with renal dysfunction (Saruta). 1989;117:243-9 (Symposium)

Nicardipine in elderly patients with hypertension: a review of experience in France (Forette et al). 1989;117:256-61 (Symposium)

Nicardipine in the elderly hypertensive: a review of experience in the United Kingdom (Littler). 1989;117:262-5 (Symposium)

Nicardipine monotherapy in ambulatory elderly patients with hypertension (Krakoff). 1989;117:250-5 (Symposium)

The potential use of nicardipine in cerebrovascular disease (Flamm). 1989;117:236-42 (Symposium)

Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

Symposium on hypertension in the elderly: focus on nicardipine—General group discussion (Sever). 1989;117:270-2 (Symposium)

Symposium on hypertension in the elderly: focus on nicardipine—Summary (Sever). 1989;117:273 (Symposium)

Nifedipine

Different coronary vasomotor effects of nifedipine and therapeutic correlates in angina with spontaneous and effort components versus Prinzmetal angina (Loadi et al). 1989;117:315-22

Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al). 1989;117:569-76

Norepinephrine

Plasma norepinephrine in Chagas' cardiomyopathy: a marker of progressive dysautonomia (Iosa et al). 1989;117:882-7

Nuclear magnetic resonance

Assessment of myocardial infarct size by means of T₂-weighted ¹H nuclear magnetic resonance imaging (Bouchard et al). 1989;117:281-9

Lipomatous encasement and compression of the heart: ante-mortem diagnosis by cardiac nuclear magnetic resonance imaging and catheterization (Rokey et al). 1989;117:952-3 (Brief comm.)

Quantification of left ventricular myocardial mass in humans by nuclear magnetic resonance imaging (Ostrzega et al). 1989;117:444-52 (Prog. cardiol.)

Regional metabolism during coronary occlusion, reperfusion, and reocclusion using phosphorus³¹ nuclear magnetic resonance spectroscopy in the intact rabbit (Kavanaugh et al). 1989;117:53-9

O**Osmolar concentration**

Induction of ventricular arrhythmia by high and low osmolality ionic and nonionic contrast media (Pinto et al). 1989;117:1283-7

Osmolarity; see Osmolar concentration**Outpatients**

Clinical value of serum digoxin assays in outpatients: improvement by the standardization of blood sampling (Jogestrand et al). 1989;117:1076-83

Oxygen

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

P**Pacemaker, artificial**

Effects of dexamethasone elution on tissue reaction around stimulating electrodes of endocardial pacing leads in dogs (Radovsky and Van Vleet). 1989;117:1288-98

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardi.)

Pacemaker lead-induced tricuspid stenosis: diagnosis by Doppler echocardiography (Old et al). 1989;117:1165-7 (Brief comm.)

Pacemakers in children: an update (Kugler and Danford). 1989;117:665-79 (Curriculum cardi.)

Transesophageal atrial pacing: a first-choice technique in atrial flutter therapy (Guarnerio et al). 1989;117:1241-52

Percutaneous transluminal angioplasty; see Angioplasty, transluminal**Perfusion, regional; see also Regional blood flow**

Is the residual transluminal pressure gradient useful to predict regional myocardial perfusion after percutaneous transluminal coronary angioplasty? (MacIsaac et al). 1989;117:783-90

Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Pericarditis

Pericarditis in acute myocardial infarction: characterization and clinical significance (Toffer et al). 1989;117:86-92

Pericarditis, tuberculous

Tuberculous pericarditis: long-term outcome in patients who received medical therapy alone (Long et al). 1989;117:1133-9

Pharmacokinetics

Pharmacokinetics of a new angiotensin-converting enzyme inhibitor, benazepril hydrochloride, in special populations (Kaiser et al). 1989;117:746-51 (Symposium)

Pheochromocytoma

Catecholamine cardiotoxicity in pheochromocytoma (Ganguly et al). 1989;117:1399-400 (Letter)

Phonocardiography

Echophonocardiography in patients undergoing percutaneous mitral balloon valvotomy (PMV): the learning curve of PMV (Brandi-Pifano et al). 1989;117:25-31

Planigraphy, x-ray; see Tomography, x-ray

Plasminogen activator, tissue-type

Enhancement of arterial thrombolysis with native tissue type plasminogen activator by pretreatment with heparin or batroxobin: an angiographic study (Tomaru et al). 1989;117:275-81

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5 (Letter)

Population screening; see Mass screening

Potassium

Exercise-related changes in serum catecholamines and potassium: effect of sustained exercise above and below lactate threshold (Coplan et al). 1989;117:1070-5

Pre-excitation syndromes

Postpartum myocardial infarction in a patient with intermittent ventricular preexcitation (Wittry et al). 1989;117:191-4 (Brief comm.)

Prednisone

Recently diagnosed idiopathic dilated cardiomyopathy: incidence of myocarditis and efficacy of prednisone therapy (Latham et al). 1989;117:876-82

Pregnancy

In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia (Johnson et al). 1989;117:690-2 (Brief comm.)

"Pseudo-critical" aortic stenosis during pregnancy: role for Doppler assessment of aortic valve area (Hustead et al). 1989;117:1383-5 (Brief comm.)

Successful pregnancy following modified Fontan procedure in a patient with tricuspid atresia and recurrent atrial flutter (Fyfe et al). 1989;117:1387-8 (Brief comm.)

Premature beat; see Extrasystole

Prenatal diagnosis

In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia (Johnson et al). 1989;117:690-2 (Brief comm.)

Pressoreceptors

Investigation of reflexes from volume and baroreceptors during converting-enzyme inhibition in humans (Giannattasio et al). 1989;117:740-5 (Symposium)

Prognosis

The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study (Goldberg et al). 1989;117:543-9

Prognostic value of early exercise stress testing after successful coronary angioplasty: importance of the degree of revascularization (Deligonul et al). 1989;117:509-14

Progress in cardiology

Progress in cardiology. 1989;117:164-84, 444-67, 680-3, 903-10, 1147-52, 1374-7

Propafenone

Electrophysiologic effects of intravenous propafenone in Wolff-Parkinson-White syndrome (Dubuc et al). 1989;117:370-6

Propafenone and 5-hydroxypropafenone concentrations in the right atrium of patients undergoing heart surgery (Latini et al). 1989;117:497-8 (Brief comm.)

Propranolol

Improvement in functional recovery of stunned canine myocardium by long-term pretreatment with oral propranolol (Al-Wathiqui et al). 1989;117:791-8

Protocols; see Clinical protocols

Pseudoaneurysm; see Aneurysm

Puerperium

Postpartum myocardial infarction in a patient with intermittent ventricular preexcitation (Wittry et al). 1989;117:191-4 (Brief comm.)

Pulmonary artery

Coronary artery-to-pulmonary artery fistula: a potential new mechanism (Dervan and Vlay). 1989;117:971-3 (Brief comm.)

Pulmonary circulation

Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Pulmonary embolism

Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test (Kaye et al). 1989;117:1169-71 (Brief comm.)

Pulmonary valve insufficiency

Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al). 1989;117:636-42

Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test (Kaye et al). 1989;117:1169-71 (Brief comm.)

Pulmonary valve stenosis

Critical pulmonary valve stenosis in patients less than 1 year of age: treatment with percutaneous gradational balloon pulmonary valvuloplasty (Khan et al). 1989;117:1008-14

Percutaneous balloon valvuloplasty via the right internal jugular vein for valvular pulmonary stenosis with severe right ventricular failure (Chaara et al). 1989;117:684-5 (Brief comm.)

Pulmonary veins

Mitral and pulmonary vein blood flow patterns in cor triatriatum (Mori and Dohi). 1989;117:1167-9 (Brief comm.)

Purkinje fibers

Local anesthetic and negative chronotropic effects of diltiazem on canine cardiac Purkinje fibers (Dangman et al). 1989;117:1271-7

Repolarization interactions between cardiac segments of varying action potential duration (Duo et al). 1989;117:854-61

Q

Quality of life

New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)

R

Radiation

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

Radionuclide angiography; see also Radionuclide imaging

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardi.)

Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction (Silberberg et al). 1989;117:532-7

Radionuclide imaging; see also Radionuclide angiography

Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al). 1989;117:1203-9

ECG left anterior fascicular block reveals diverse patterns on scintigraphic phase analysis (Dae et al). 1989;117:861-9

Radiowaves

The effect of radiofrequency-generated thermal energy on the mechanical and histologic characteristics of the arterial wall in vivo: implications for radiofrequency angioplasty (Barry et al). 1989;117:332-41

Receptors, adrenergic

Intracellular distribution of adrenoceptors in the failing human myocardium (Limas et al). 1989;117:1310-6

Receptors, adrenergic, beta

Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoceptors (dopexamine) in patients with heart failure (Jamison et al). 1989;117:607-14

Receptors, dopamine

Central and renal hemodynamic effects of a new agonist at peripheral dopamine- and beta-2 adrenoceptors (dopexamine) in patients with heart failure (Jamison et al). 1989;117:607-14

Regional blood flow; see also Perfusion, regional

Is the residual translesional pressure gradient useful to predict regional myocardial perfusion after percutaneous transluminal coronary angioplasty? (MacIsaac et al). 1989;117:783-90

Regional blood flow—Cont'd

Mitral and pulmonary vein blood flow patterns in cor triatriatum (Mori and Dohi). 1989;117:1167-9 (Brief comm.)

Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

Variceal transformation of the subendocardial microvasculature in regions of chronic myocardial ischemia (Hoyt and Hutchins). 1989;117:830-6

Regurgitation, aortic valve; see Aortic valve insufficiency

Regurgitation, mitral valve; see Mitral valve insufficiency

Renal circulation

Effects of nicardipine on blood pressure and renal function in elderly hypertensive patients with renal dysfunction (Saruta). 1989;117:243-9 (Symposium)

Renin-angiotensin system

Immunologic approaches to blockade of the renin-angiotensin system: a review (Michel et al). 1989;117:756-67 (Symposium)

Restenosis

Repeat coronary angioplasty for restenosis: results and predictors of follow-up clinical events (Deligonul et al). 1989;117:997-1002

Risk factors

The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study (Goldberg et al). 1989;117:543-9

Lens changes and the incidence of cardiovascular events among persons with diabetes (Podgor et al). 1989;117:642-8

New insights and new approaches for the treatment of essential hypertension: selection of therapy based on coronary heart disease risk factor analysis, hemodynamic profiles, quality of life, and subsets of hypertension (Houston). 1989;117:911-51 (Special report)

Risk factors and noncontraceptive estrogen use in women with and without coronary disease (McFarland et al). 1989;117:1209-14

S**Safety**

Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22

Saphenous vein, transplantation

Aortocoronary saphenous vein graft spasm inducing ventricular fibrillation (Webb et al). 1989;117:485-6 (Brief comm.)

Scars; see Cicatrix**Scintigraphy; see Radionuclide imaging****Scintigraphy, computed topographic; see Tomography, emission computed****Screening, population; see Mass screening****Senning procedure**

Atrial automatic ectopic tachycardia successfully treated with encainide in a 4-week-old infant after Senning procedure (Hays and Gillette). 1989;117:489-92 (Brief comm.)

Shock, cardiogenic

Management of myocardial infarction shock: current status (Schreiber et al). 1989;117:435-43 (Curriculum cardiol.)

Sinoatrial block

Electrotonic inhibition and supernormal conduction (Kinoshita and Konishi) (Letter); (Oreto et al) (Reply). 1989;117:1402-3

Skiing

Oxygen uptake and heart rate during cross-country skiing and track walking after myocardial infarction (Oldridge and Connolly). 1989;117:495-7 (Brief comm.)

Sotalol

Efficacy, safety, and tolerance of d-sotalol in patients with refractory supraventricular tachyarrhythmias (Sahar et al). 1989;117:562-8

Special report

Special report. 1989;117:911-51

SPECT; see Tomography, emission computed**Spectroscopy; see Spectrum analysis****Spectroscopy, magnetic resonance; see Nuclear magnetic resonance****Spectrum analysis**

Percutaneous pulsed laser-assisted balloon angioplasty guided by spectroscopy (Geschwind et al). 1989;117:1147-52 (Prog. cardiol.)

Sports

Oxygen uptake and heart rate during cross-country skiing and track walking after myocardial infarction (Oldridge and Connolly). 1989;117:495-7 (Brief comm.)

Recurrent myocardial infarction and sudden death after sport (Ciampricotti and El Gamal). 1989;117:188-91 (Brief comm.)

ST segment

Right ventricular infarction: diagnostic value of ST elevation in lead III exceeding that of lead II during inferior/posterior infarction and comparison with right-chest leads V₃R to V₇R (Andersen et al). 1989;117:82-6

Significance of ST segment depression in exercise-induced supraventricular extrasystoles (Michaelides et al). 1989;117:1035-41

Steroids

Recently diagnosed idiopathic dilated cardiomyopathy: incidence of myocarditis and efficacy of prednisone therapy (Latham et al). 1989;117:876-82

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5 (Letter)

Streptokinase

Emergency room infusion of intravenous streptokinase in acute myocardial infarction: feasibility, safety, and hemodynamic consequences (Verheugt et al). 1989;117:1018-22

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5 (Letter)

Stress, psychological

Psychiatric syndromes in patients with the automatic internal cardioverter defibrillator: anxiety, psychological dependence, abuse, and withdrawal (Fricchione et al). 1989;117:1411-4 (Editorial)

Stroke volume

Doppler assessment of left ventricular diastolic filling during brief coronary occlusion (de Bruyne et al). 1989;117:629-35

Doppler echocardiographic assessment of the effect of balloon aortic valvuloplasty on left ventricular systolic function (Ferguson et al). 1989;117:18-24

Long-term stepwise sustained improvement in left ventricular ejection fraction after myocardial infarction (Silberberg et al). 1989;117:532-7

Plasma atrial natriuretic polypeptide as an index of left ventricular end-diastolic pressure in patients with chronic left-sided heart failure (Tsutamoto et al). 1989;117:599-606

Prediction of left ventricular ejection fraction using a unique method of chest x-ray and ECG analysis: a noninvasive index of cardiac performance based on the concept of heart volume and mass interrelationship (Ostojic et al). 1989;117:590-8

Subaortic stenosis; see Aortic subvalvular stenosis**Sudden death; see Death, sudden****Superoxide dismutase**

Effect of oxygen free radicals on cardiovascular function at organ and cellular levels (Prasad et al). 1989;117:1196-202

Supraventricular tachycardia; see Tachycardia, supraventricular**Syncope**

The noninvasive evaluation of syncope of suspected cardiovascular origin (Strasberg et al). 1989;117:160-3 (Curriculum cardiol.)

T**T lymphocytes**

Exercise in coxsackie B3 myocarditis: effects on heart lymphocyte subpopulations and the inflammatory reaction (Ilbäck et al). 1989;117:1298-1302

Tachycardia

Atrial automatic tachycardia with two different types of electrophysiologic characteristics (Fujiki et al). 1989;117:699-701 (Brief comm.)

Catheter ablation of the ventricular septum with radiofrequency energy (Ring et al). 1989;117:1233-40

Ebstein's anomaly with ventricular tachycardia: evidence for the arrhythmogenic role of the atrialized ventricle (Lo et al). 1989;117:959-62 (Brief comm.)

Tachycardia—Cont'd

Low-energy electrical catheter ablation of sustained ventricular tachycardia originating from the right ventricle (Niawano et al). 1989;117:1155-7 (Brief comm.)

Predictors of sustained ventricular tachycardia inducibility in patients with nonsustained ventricular tachycardia and chronic coronary artery disease (Furukawa et al). 1989;117:1050-9

Tachycardia, ectopic atrial

Atrial automatic ectopic tachycardia successfully treated with encainide in a 4-week-old infant after Senning procedure (Hays and Gillette). 1989;117:489-92 (Brief comm.)

Tachycardia, supraventricular

Efficacy, safety, and tolerance of d-sotalol in patients with refractory supraventricular tachyarrhythmias (Sahar et al). 1989;117:562-8

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

The mechanisms of exercise provocation of supraventricular tachycardia (Yeh et al). 1989;117:1041-9

Natriuresis associated with elevated plasma atrial natriuretic hormone during supraventricular tachycardia (Nicklas et al). 1989;117:377-81

Technetium

Comparison of technetium 99m methoxy isobutyl isonitrile and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods (Kiat et al). 1989;117:1-11

Terazosin

The effects of terazosin and methyclothiazide on blood pressure and serum lipids (Luther et al). 1989;117:842-7

Thallium radioisotopes

Comparison of technetium 99m methoxy isobutyl isonitrile and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods (Kiat et al). 1989;117:1-11

Dipyridamole thallium-201 imaging pre- and post-coronary angioplasty for assessment of regional myocardial ischemia in humans (Eichhorn et al). 1989;117:1203-9

The effect of beta blockade on single photon emission computed tomographic (SPECT) thallium-201 images in patients with coronary disease (Narahara et al). 1989;117:1030-5

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardi.)

Pulmonary embolism masquerading as coronary insufficiency: clues to the diagnosis by exercise-thallium stress test (Kaye et al). 1989;117:1169-71 (Brief comm.)

Role of resting thallium²⁰¹ perfusion in predicting coronary anatomy, left ventricular wall motion, and hospital outcome in unstable angina pectoris (Freeman et al). 1989;117:306-14

Theophylline

Proarrhythmia related to a kinetic and dynamic interaction of mexiletine and theophylline (Kessler et al). 1989;117:964-6 (Brief comm.)

Thorax, radiography

Prediction of left ventricular ejection fraction using a unique method of chest x-ray and ECG analysis: a noninvasive index of cardiac performance based on the concept of heart volume and mass interrelationship (Ostojic et al). 1989;117:590-8

Thrombolytic agents; see Fibrinolytic agents

Thrombosis

Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8

Garlic extract prevents acute platelet thrombus formation in stenosed canine coronary arteries (DeBoer and Folts). 1989;117:973-5 (Brief comm.)

Left atrial thrombus (Zatuchni). 1989;117:1405 (Letter)

Left ventricular thrombus with normal left ventricular wall motion in a patient with myofibroblastosis (Stoddard et al). 1989;117:966-8 (Brief comm.)

Thrombotic obstruction of prosthetic aortic valve presenting as acute myocardial infarction (Quintanilla and Haque). 1989;117:1378-9 (Brief comm.)

Thrombosis, coronary; see Coronary thrombosis

Thromboxanes, antagonists

The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models (O'Connor et al). 1989;117:848-53

Thromboxanes, antagonists—Cont'd

Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats (Bhat et al). 1989;117:799-803

Thyrototoxicosis

Thyrototoxicosis, atrial fibrillation, and embolism, revisited (Presti and Hart). 1989;117:976-7 (Brief comm.)

Tomography, emission computed

The clinical efficacy and scintigraphic evaluation of post-coronary bypass patients undergoing percutaneous transluminal coronary angioplasty for recurrent angina pectoris (Reed et al). 1989;117:60-71

Comparison of technetium 99m methoxy isobutyl isonitrile and thallium 201 for evaluation of coronary artery disease by planar and tomographic methods (Kiat et al). 1989;117:1-11

The effect of beta blockade on single photon emission computed tomographic (SPECT) thallium-201 images in patients with coronary disease (Narahara et al). 1989;117:1030-5

Track and field

Oxygen uptake and heart rate during cross-country skiing and track walking after myocardial infarction (Oldridge and Connolly). 1989;117:495-7 (Brief comm.)

Transluminal angioplasty; see Angioplasty, transluminal

Transluminal balloon valvuloplasty; see Balloon dilatation

Transplantation, homologous

Pseudo-complete AV block following orthotopic cardiac transplantation (de Marchena et al). 1989;117:1173-4 (Brief comm.)

Transposition of great vessels

In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia (Johnson et al). 1989;117:690-2 (Brief comm.)

Tricuspid valve

In utero diagnosis of interrupted aortic arch with transposition of the great arteries and tricuspid atresia (Johnson et al). 1989;117:690-2 (Brief comm.)

Tricuspid valve endocarditis (Chan et al). 1989;117:1140-6 (Curriculum cardi.)

Tricuspid valve insufficiency

Long-term follow-up after Carpentier tricuspid valvuloplasty (Lambertz et al). 1989;117:615-22

Prevalence of valvular regurgitation by Doppler echocardiography in patients with structurally normal hearts by two-dimensional echocardiography (Choong et al). 1989;117:636-42

Successful pregnancy following modified Fontan procedure in a patient with tricuspid atresia and recurrent atrial flutter (Fyfe et al). 1989;117:1387-8 (Brief comm.)

Tricuspid valve stenosis

Long-term follow-up after Carpentier tricuspid valvuloplasty (Lambertz et al). 1989;117:615-22

Pacemaker lead-induced tricuspid stenosis: diagnosis by Doppler echocardiography (Old et al). 1989;117:1165-7 (Brief comm.)

Percutaneous balloon valvuloplasty for tricuspid stenosis: hemodynamic and pathological findings (Bourdillon et al). 1989;117:492-5 (Brief comm.)

Tuberculous pericarditis; see Pericarditis, tuberculous

Two-dimensional echocardiography; see Echocardiography

U

Ultrasonic diagnosis

Regional hemodynamic effects of slow-release nicardipine in elderly patients with hypertension: evaluation by a new ultrasound technique (Carretta et al). 1989;117:229-35 (Symposium)

United Kingdom; see Great Britain

Urokinase

Angina preceding myocardial infarction and residual coronary narrowing after intracoronary thrombolysis (Ogasawara et al). 1989;117:804-8

Presence of angina pectoris before acute myocardial infarction and degree of residual stenosis after coronary thrombolysis (Matsuda et al). 1989;117:1014-7

Thrombolytic therapy and steroids (Kenny). 1989;117:1404-5 (Letter)

V

Valvuloplasty, balloon; see Balloon dilatation**Vasoconstrictor agents**

Evaluation of coronary artery disease in the patient unable to exercise: alternatives to exercise stress testing (Stratmann and Kennedy). 1989;117:1344-65 (Curriculum cardiol.)

Vasodilator agents

Dose- and time-related vasodilator response of conduit coronary arteries to intracoronary isosorbide dinitrate in human beings (Simonetti et al). 1989;117:323-31

Ventilation

Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Ventilation-perfusion ratio

Regional distribution of lung perfusion and ventilation in patients with chronic congestive heart failure and its relationship to cardiopulmonary hemodynamics (Mohsenifar et al). 1989;117:887-91

Ventricle; see Heart ventricle**Ventricular arrhythmias; see Arrhythmia****Ventricular ejection fraction; see Stroke volume****Ventricular fibrillation**

Aortocoronary saphenous vein graft spasm inducing ventricular fibrillation (Webb et al). 1989;117:485-6 (Brief comm.)

Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al). 1989;117:569-76

The effect of thromboxane inhibition on vulnerability to ventricular fibrillation in the acute and chronic feline infarction models (O'Connor et al). 1989;117:848-53

Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs (de Lorgier et al). 1989;117:523-32

Ventricular fibrillation—Cont'd

Spontaneous reversion of VF (Viskin and Belhassen) (Letter); (Podrid) (Reply). 1989;117:1401-2

Ventricular septal defects; see Heart septal defects, ventricular**Ventricular septum; see Heart septum****Ventricular tachycardia; see Tachycardia****Verapamil**

Effect of calcium channel blockers on hemodynamic responses to defibrillation (Hite et al). 1989;117:569-76

Effects of verapamil on left ventricular relaxation and filling dynamics in coronary artery disease: a study by pulsed Doppler echocardiography (Myreng and Myhre). 1989;117:870-5

Virus diseases

Management strategies in viral myocarditis (Rezkalla and Kloner). 1989;117:706-8 (Editorial)

W

Wolff-Parkinson-White syndrome

Electrophysiologic effects of intravenous propafenone in Wolff-Parkinson-White syndrome (Dubuc et al). 1989;117:370-6

Flecainide acetate in the treatment of supraventricular tachycardias: value of programmed electrical stimulation for long-term prognosis (van Wijk et al). 1989;117:365-9

Worcester Heart Attack Study

The impact of age on the incidence and prognosis of initial acute myocardial infarction: the Worcester Heart Attack Study (Goldberg et al). 1989;117:543-9

